

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

UTU-45431

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.  
Humpback

8. Lease Name and Well No.

Humpback Federal 4-24-8-17

9. API Well No.

43-047-36501

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area

NW/NW Sec. 24, T8S R17E

12. County or Parish

Uintah

13. State

UT

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface NW/NW Lot#4 350' FNL 456' FWL 582445 X 40.10840

At proposed prod. zone

4440095 Y -109.46225

14. Distance in miles and direction from nearest town or post office\*

Approximatley 16.8 miles southeast of Myton, Utah

15. Distance from proposed\*

location to nearest  
property or lease line, ft.

(Also to nearest drig. unit line, if any) Approx. 350' f/ise, 350' f/unit

16. No. of Acres in lease

548.53

17. Spacing Unit dedicated to this well

Approx. 40 Acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

Approx. 1675'

19. Proposed Depth

6500'

20. BLM/BIA Bond No. on file

UT0056

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5006' GL

22. Approximate date work will start\*

3rd Quarter 2005

23. Estimated duration

Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the  
SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see  
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the  
authorized officer.

25. Signature

Name (Printed/Typed)

Mandie Crozier

Date

4/14/05

Title

Regulatory Specialist

Approved by (Signature)

Name (Printed/Typed)

BRADLEY G. HILL

Date

07-19-05

Title

ENVIRONMENTAL SCIENTIST III

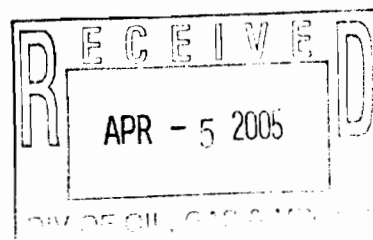
Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct  
operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United  
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

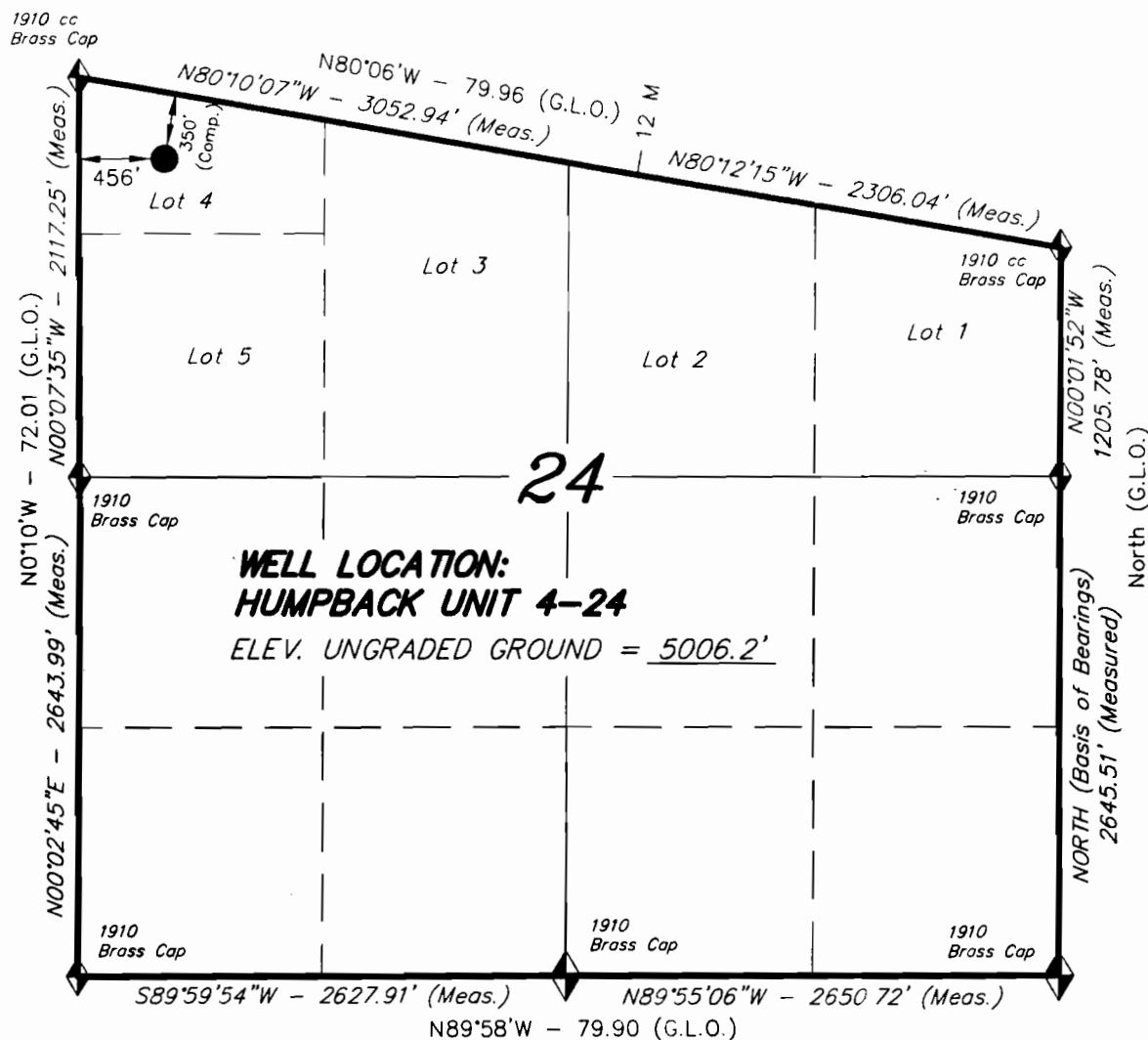
Federal Approval of this  
Action is Necessary



**T8S, R17E, S.L.B.&M.**

**NEWFIELD PRODUCTION COMPANY**

WELL LOCATION, HUMPBACK UNIT 4-24,  
LOCATED AS SHOWN IN LOT 4 OF  
SECTION 24, T8S, R17E, S.L.B.&M.  
UINTAH COUNTY, UTAH.



Note:

1. Well Footages are Measured at Right Angles to the Section Lines.
2. The well location bears S46°27'37"E 630.02' from the Northwest Corner of Section 24.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. No. 189377

*Stacy W. Stewart*  
STACY W. STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 189377  
STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501



= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

SCALE: 1" = 1000'	SURVEYED BY: C.M.
DATE: 11-8-04	DRAWN BY: F.T.M.
NOTES:	FILE #

## NEWFIELD



July 15, 2005

Utah Division of Oil, Gas & Mining  
P.O. Box 145801  
Attn: Diana Whitney  
Salt Lake City, Utah 84114-5801

Re: Exception Location: Humpback Federal 4-24-8-17  
350' FNL, 456' FWL, Lot 4: Sec 24-T8S-17E  
Uintah Cty., Utah; Lease U-45431

Dear Ms. Whitney:

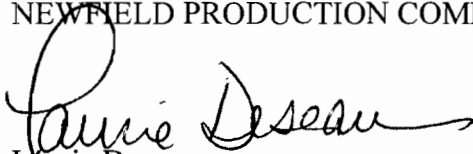
Pursuant to Cause Order 238-1 (Humpback Unit) Newfield Production Company, Inc. hereby requests an exception location for the drilling of the captioned well. Cause Order 238-1 requires written consent from all owners within a 460' radius of the proposed well location and also requires that well locations be not less than 920' from one another.

The attached plat depicts the proposed drillsite location and illustrates the deviation from the drilling window. The requested location has been selected in order to avoid a drainage area.

Please note the location is within Federal lease U-45431. The drillsite lease is owned by Newfield Production Company, Carrkel Oil Partnership, Thomas J. Lambert, Larry R. Simpson, Vaughey & Vaughey, Montana & Wyoming Oil Co., John R. Warne, Bonnie B. Warne, Great Northern Drilling Co. and Lambert Trust. The adjacent acreage in Lot 5, Section 24-T8S-R17E (U-45431) is owned by the same owners and includes Michael W. Lambert and Robert B. Lambert. We have contacted all pertinent parties' and all consents to this location are attached.

If you have any questions or need additional information please contact me at (303)-382-4448. Thank you for your assistance in this matter.

Sincerely,  
NEWFIELD PRODUCTION COMPANY

  
Laurie Deseau  
Properties Administrator

RECEIVED

JUL 18 2005

DIV. OF OIL, GAS & MINING

Form 3160-3  
(September 2001)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

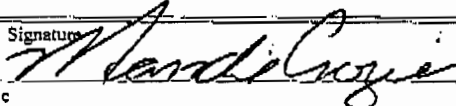
## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-45431
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Humpback
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Humpback Federal 4-24-8-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/NW Lot#4 350' FNL 456' FWL At proposed prod. zone		10. Field and Pool, or Exploratory Monument Butte
11. Sec., T., R., M., or Blk. and Survey or Area NW/NW Sec. 24, T8S R17E		12. County or Parish Utah
13. State UT		
14. Distance in miles and direction from nearest town or post office* Approximately 16.8 miles southeast of Myton, Utah	15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 350' f/line, 350' f/unit	16. No. of Acres in lease 548.53
17. Spacing Unit dedicated to this well Approx. 40 Acres	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1675'	19. Proposed Depth 6500'
20. BLM/BIA Bond No. on file UT0056	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5006' GL	22. Approximate date work will start* 3rd Quarter 2005
23. Estimated duration Approximately seven (7) days from spud to rig release.	24. Attachments	

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 4/14/05
Title Regulatory Specialist		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED

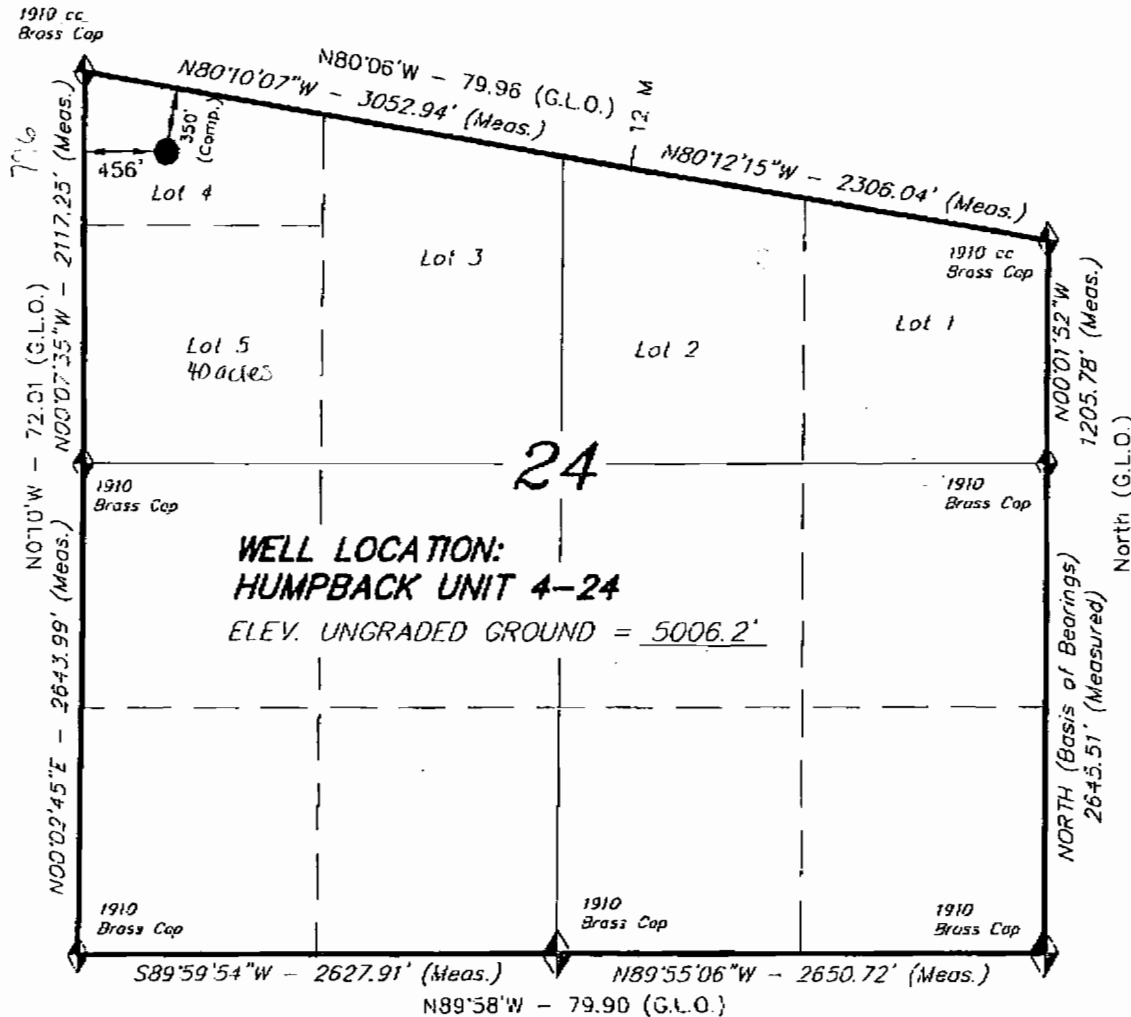
JUL 18 2005

DIV. OF OIL, GAS &amp; MINING

T8S, R17E, S.L.B.&M.

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, HUMPBAC UNIT 4-24,  
LOCATED AS SHOWN IN LOT 4 OF  
SECTION 24, T8S, R17E, S.L.B.&M.  
UINTAH COUNTY, UTAH.



WELL LOCATION:  
HUMPBAC UNIT 4-24

ELEV. UNGRADED GROUND = 5006.2'

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)



Note:

1. Well Footages are Measured at Right Angles to the Section Lines.
2. The well location bears  $S46^{\circ}27'37''E$  630.02' from the Northwest Corner of Section 24.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF No.189377

STACY W. STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 189377  
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 791-2501

SCALE: 1" = 1000'

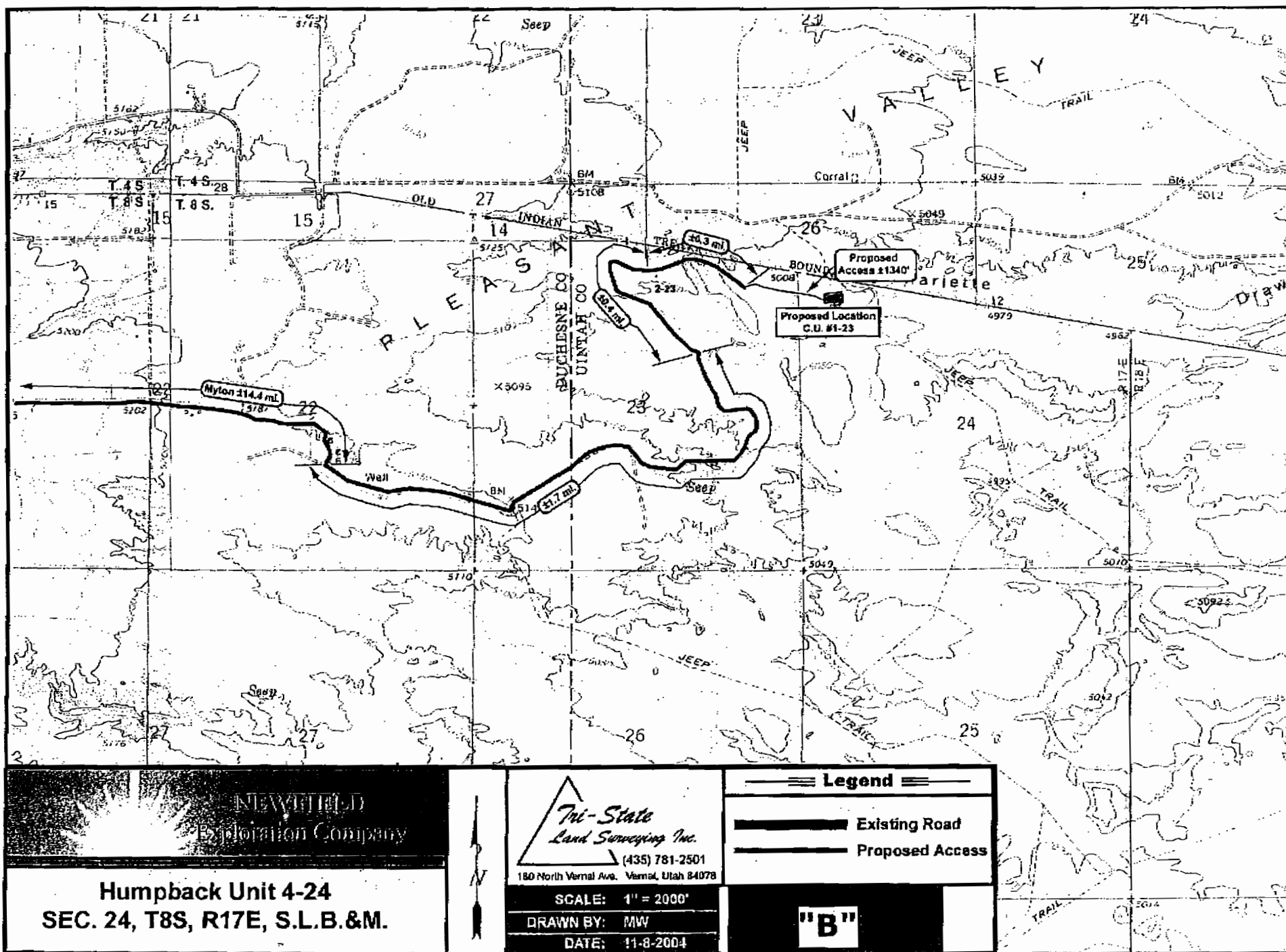
SURVEYED BY: C.M.

DATE: 11-8-04

DRAWN BY: F.T.M.

NOTES:

FILE #




To: Newfield Production Company  
Attn: Laurie Deseau

Fax: 303-893-0103

RE: Exception Location: 4-24-8-17

Please be advised that Carrkel Oil Partnership does not have an objection to the proposed location of the aforementioned well.

By:   
Larry R. Simpson, Manager  
Print Name and Title

Date: May 25, 2005

To: Newfield Production Company  
Attn: Laurie Descau

Fax: 303-893-0103

RE: Exception Location: 4-24-8-17

Please be advised that Thomas Lambert does not have an objection to the proposed location of the  
aforementioned well.

Robert Lambert ✓  
By: Michael W. Lambert  
Thomas Lambert  
Print Name and Title

Date: 5/23/05




To: Newfield Production Company  
Attn: Laurie Deseau

Fax: 303-893-0103

RE: Exception Location: 4-24-8-17

Please be advised that Larry R. Simpson does not have an objection to the proposed location of the aforementioned well.

By:   
Larry R. simpson, Owner  
Print Name and Title

Date: May 25 2005

**To: Newfield Production Company**  
**Attn: Laurie Deseau**

**Fax: 303-893-0103**

**RE: Exception Location: 4-24-8-17**

Please be advised that Vaughey & Vaughey does not have an objection to the proposed location of the aforementioned well.

By: 

Date: 6/1/05

C. WILLIAMS, JR.

Print Name and Title

Attorney in Fact

**To: Newfield Production Company**  
**Attn: Laurie Deseau**

Fax: 303-893-0103

**RE: Exception Location: 4-24-8-17**

Please be advised that Montana & Wyoming Oil Co. does not have an objection to the proposed location of the aforementioned well.

By: RC Balsam Jr  
Robert C. Balsam Jr President  
Print Name and Title

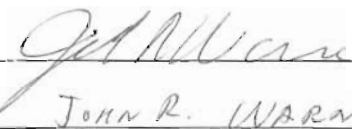
Date: 6-8-05

**To: Newfield Production Company**  
**Attn: Laurie Deseau**

Fax: 303-893-0103

**RE:** Exception Location: 4-24-8-17

Please be advised that John R. Warne does not have an objection to the proposed location of the  
aforementioned well.

By:   
JOHN R. WARNE, OWNER  
Print Name and Title

Date: 7-14-10, 2001

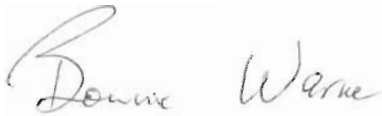
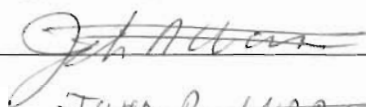
RECEIVED  
JUL 14 2005  
INLAND RESOURCES

**To: Newfield Production Company**  
**Attn: Laurie Deseau**

Fax: 303-893-0103

**RE:** Exception Location: 4-24-8-17

Please be advised that Bonnie B. Warne does not have an objection to the proposed location of the aforementioned well.

By:   
  
JOHN P. HAAS (owner)  
Print Name and Title  
Bonnie Warne, owner

Date: 7/10/05

RECEIVED  
JUL 14 2005  
INLAND RESOURCES

05/26/2005 10:41 4062596747  
05/25/2005 11:00 303302 4

GREAT NORTHERN DRILL  
NEWFIELD ROCKY M.

PAGE 02  
PAGE 02

To: Newfield Production Company  
Attn: Laurie Desau

Fax: 303-893-0103

RE: Exception Location: 4-24-8-17

Please be advised that Great Northern Drilling Co. does not have an objection to the proposed location of the aforementioned well.

By: Sam Ohustad  
SAM OHUSTAD - PRESIDENT  
Print Name and Title

Date: 5-26-2005

To: Newfield Production Company  
Attn: Laurie Deseau

Fax: 303-893-0103

RE: Exception Location: 4-24-8-17

Please be advised that the Lambert Trust does not have an objection to the proposed location of the aforementioned well.

By: Robert Lambert  
Lambert Trust  
Print Name and Title

Date: 5/23/05

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

April 8, 2005

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2005 Plan of Development Humpback Unit,  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2005 within the Humpback Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ Green River)

43-047-36504	Humpback Fed 3-24-8-17	Sec 24 T08S R17E 0200 FNL 1981 FWL
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43-047-36501	Humpback Fed 4-24-8-17	Sec 24 T08S R17E 0350 FNL 0456 FWL
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43-047-36497	Humpback Fed 6-24-8-17	Sec 24 T08S R17E 1244 FNL 1898 FWL
--------------	------------------------	------------------------------------

Our records indicate the 3-24-8-17 and the 4-24-8-17 are closer than 460 feet from the Humpack Unit boundary.

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Humpback Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:4-8-05



# NEWFIELD



April 4, 2005

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: 5-1-9-17, 3-24-8-17, 4-24-8-17, and 6-24-8-17. ✓

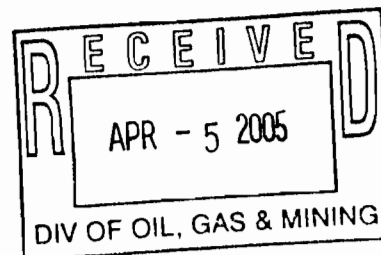
Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed 3-24-8-17 and 4-24-8-17 are Exception Locations. Our Land Department will send you the required Exception Location Letter. If you have any questions, feel free to give either Brad or myself a call. ✓

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures



**NEWFIELD PRODUCTION COMPANY  
HUMPBACK FEDERAL #4-24-8-17  
NW/NW (LOT #4) SECTION 24, T8S, R17E  
UINTAH COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 2570'
Green River	2570'
Wasatch	6500'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 2570' – 6500' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
HUMPBACK FEDERAL #4-24-8-17  
NW/NW (LOT #4) SECTION 24, T8S, R17E  
UINTAH COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Humpback Federal #4-24-8-17 located in the NW 1/4 NW 1/4 Section 24, T8S, R17E, Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 9.1 miles  $\pm$  to it's junction with an existing road to the east; proceed easterly - 3.7 miles  $\pm$  to it's junction with an existing road to the southeast; proceed northeasterly - 2.1 miles  $\pm$  to it's junction with an existing road to the east; proceed southeasterly to it's junction with the beginning of the proposed access road; proceed southeasterly along the proposed access road 1,340'  $\pm$  to the proposed well location.

**2. PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "A".

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #05-04, 1/7/05. Paleontological Resource Survey prepared by, Wade E. Miller, 3/8/05. See attached report cover pages, Exhibit "D".

For the Humpback Federal #4-24-8-17 Newfield Production Company requests 1340' of disturbed area be granted in Lease UTU-45431 to allow for construction of the proposed access road. **Refer to Topographic Map "B"**. The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests 1490' of disturbed area be granted in Lease UTU-45431 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

**Ferruginous Hawk:** Due to this proposed well location's proximity (less than 0.5 mile) to an existing inactive ferruginous hawk nest site, no new construction or surface disturbing activities will be allowed between March 1 and July 31. If the nest remains inactive on May 30<sup>th</sup> (based on a pre-construction survey by a qualified biologist), the operator may construct and drill the location after that date. If the nest site becomes active prior to May 30, no new construction or surface disturbing activities will be allowed within 0.5 mile of the nest until the nest becomes inactive for two full breeding seasons. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

**Reserve Pit Liner**

Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Gardner Saltbush                      *Atriplex Gardneri*                      6 lbs/acre

**Details of the On-Site Inspection**

The proposed Humpback Federal #4-24-8-17 was on-sited on 8/12/04. The following were present; Brad Mecham (Newfield Production), Byron Tolman (Bureau of Land Management), and Greg Darlington (Bureau of Land Management). Weather conditions were clear at 70 degrees.

13. **LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

Name:                      Brad Mecham  
  
Address:                      Route #3 Box 3630  
                                    Myton, UT 84052  
  
Telephone:                      (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #4-24-8-17 NW/NW Section 24, Township 8S, Range 17E: Lease UTU-45431 Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

4/4/05

Date

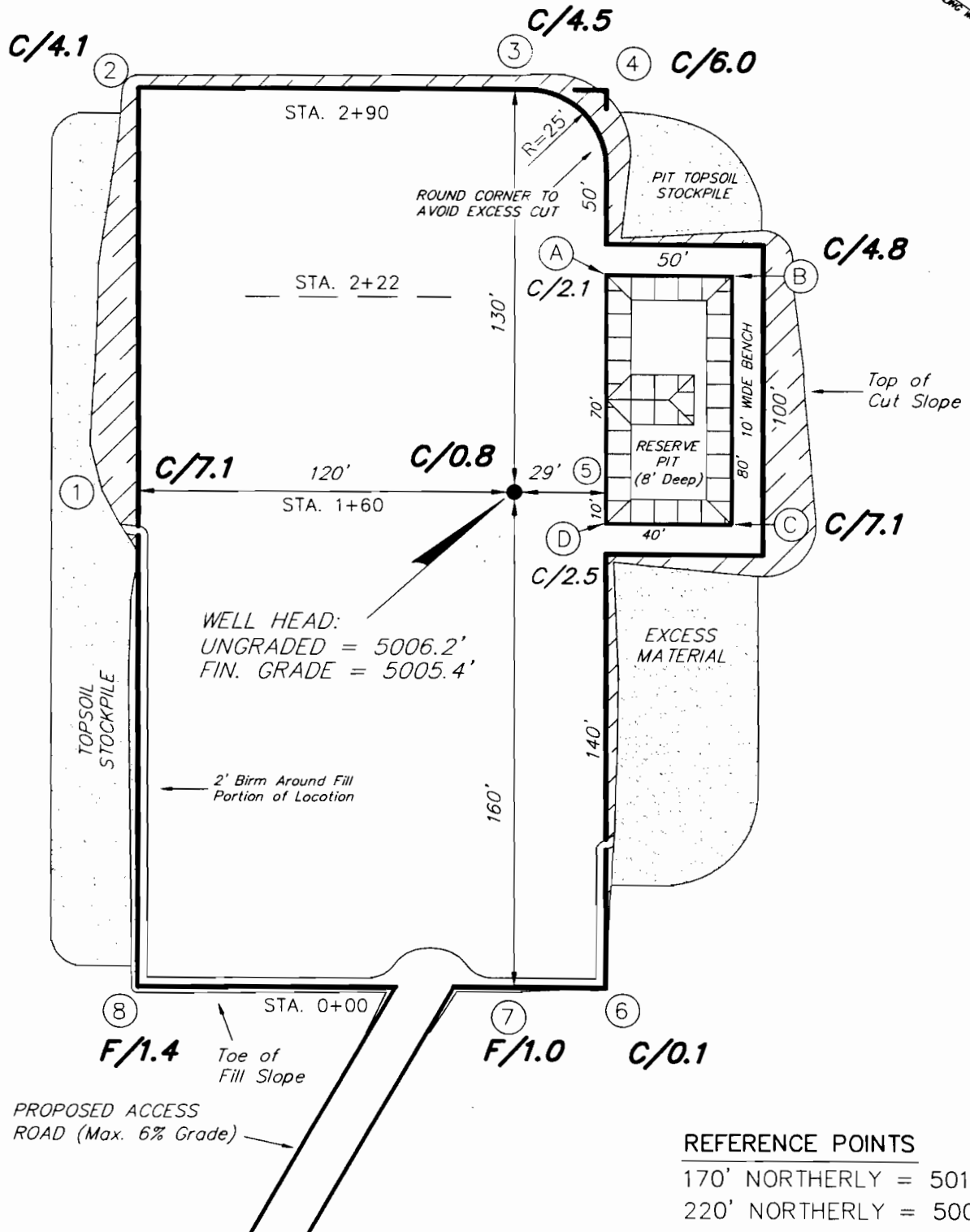


Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

## HUMPBACK UNIT 4-24

Section 24, T8S, R17E. S.L.B.&M.



SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

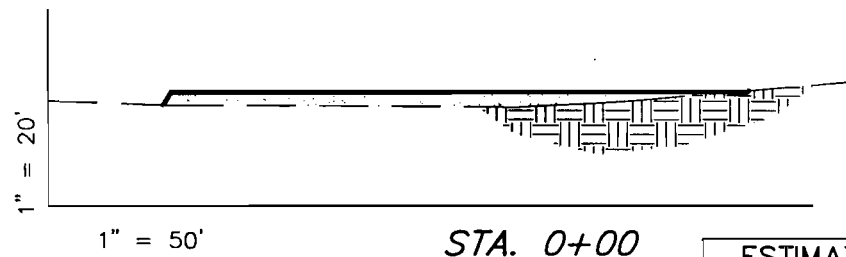
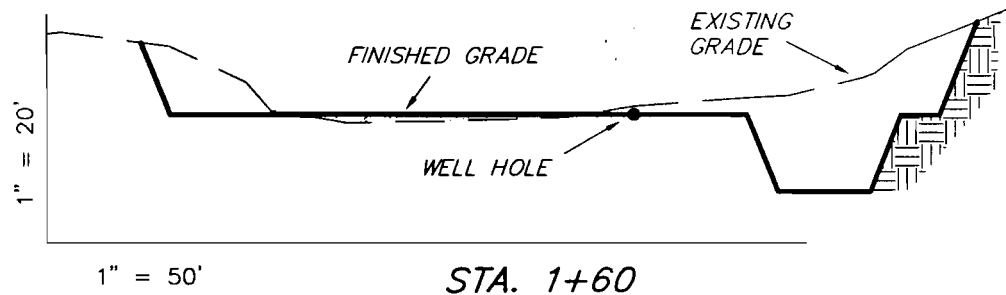
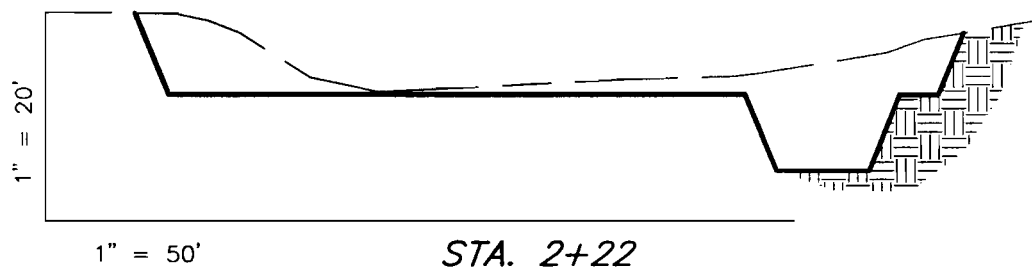
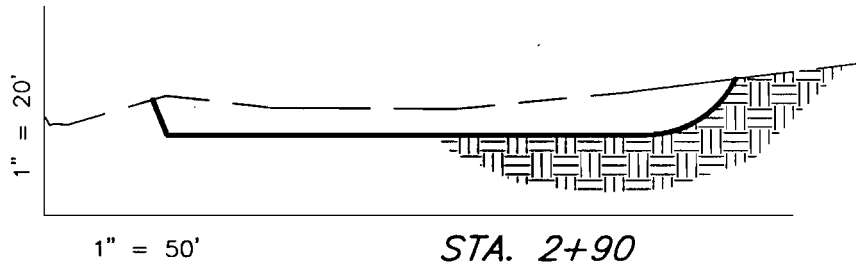
DATE: 11-8-04

**Tri State**  
Land Surveying, Inc.

(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**NEWFIELD PRODUCTION COMPANY**  
**CROSS SECTIONS**  
**HUMPBACK UNIT 4-24**



NOTE:  
UNLESS OTHERWISE NOTED  
CUT SLOPES ARE AT 1:1  
FILL SLOPES ARE AT 1.5:1

**ESTIMATED EARTHWORK QUANTITIES**  
(No Shrink or swell adjustments have been used)  
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	2,520	1,390	Topsoil is not included in Pad Cut	1,130
PIT	640	0		640
TOTALS	3,160	1,390	890	1,770

SURVEYED BY: C.M.

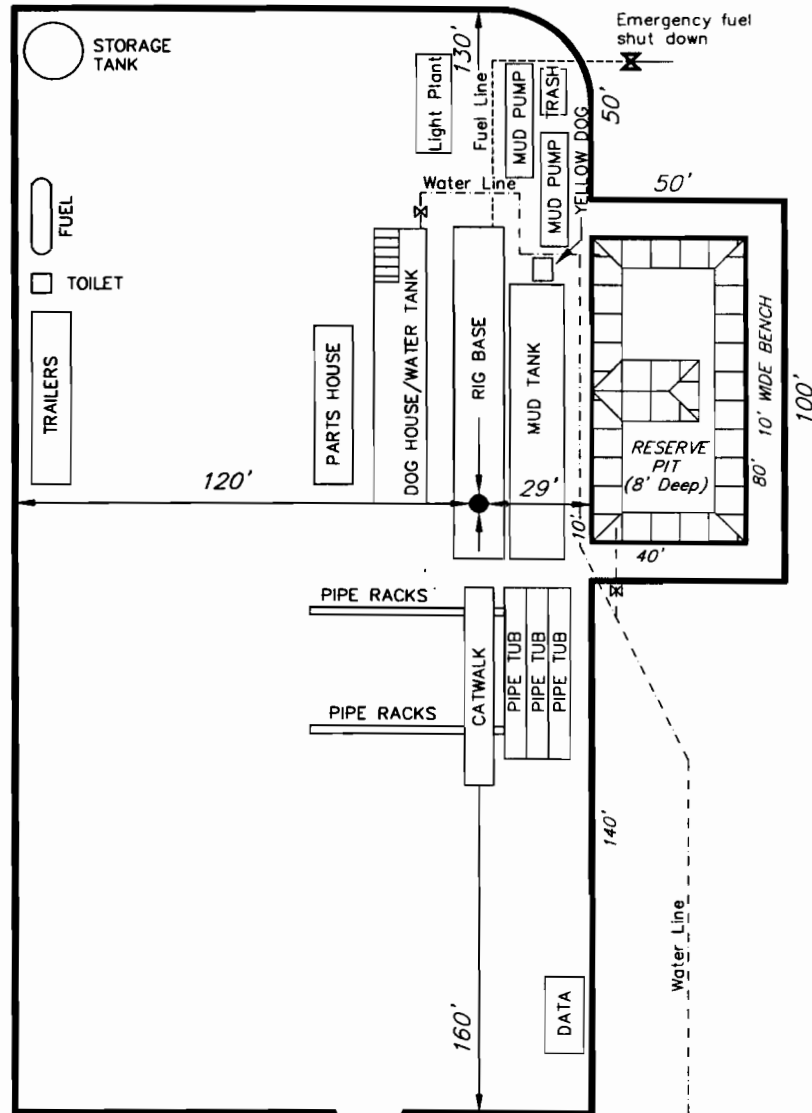
SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 11-8-04

**Tri State**  
**Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

# NEWFIELD PRODUCTION COMPANY TYPICAL RIG LAYOUT HUMPBACK UNIT 4-24



PROPOSED ACCESS ROAD (Max. 6% Grade)

SURVEYED BY: C.M.

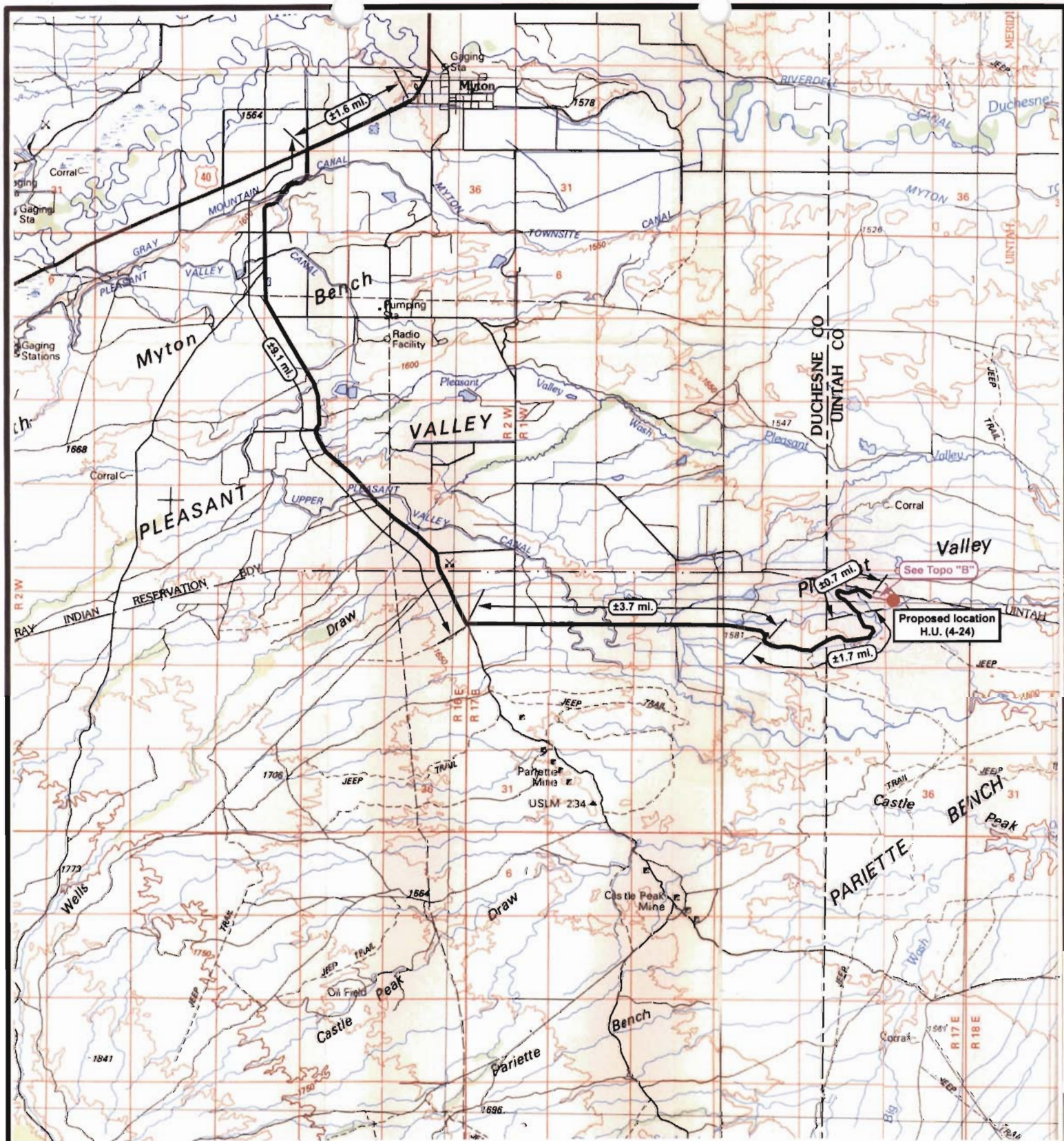
SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 11-8-04

**Tri State**  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
 (435) 781-2501





**NEWFIELD**  
Exploration Company

**Humpback Unit 4-24**  
**SEC. 24, T8S, R17E, S.L.B.&M.**

**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
38 West 100 North Vernal, Utah 84078

**SCALE: 1" = 100,000"**  
**DRAWN BY: MW**  
**DATE: 11-9-2002**

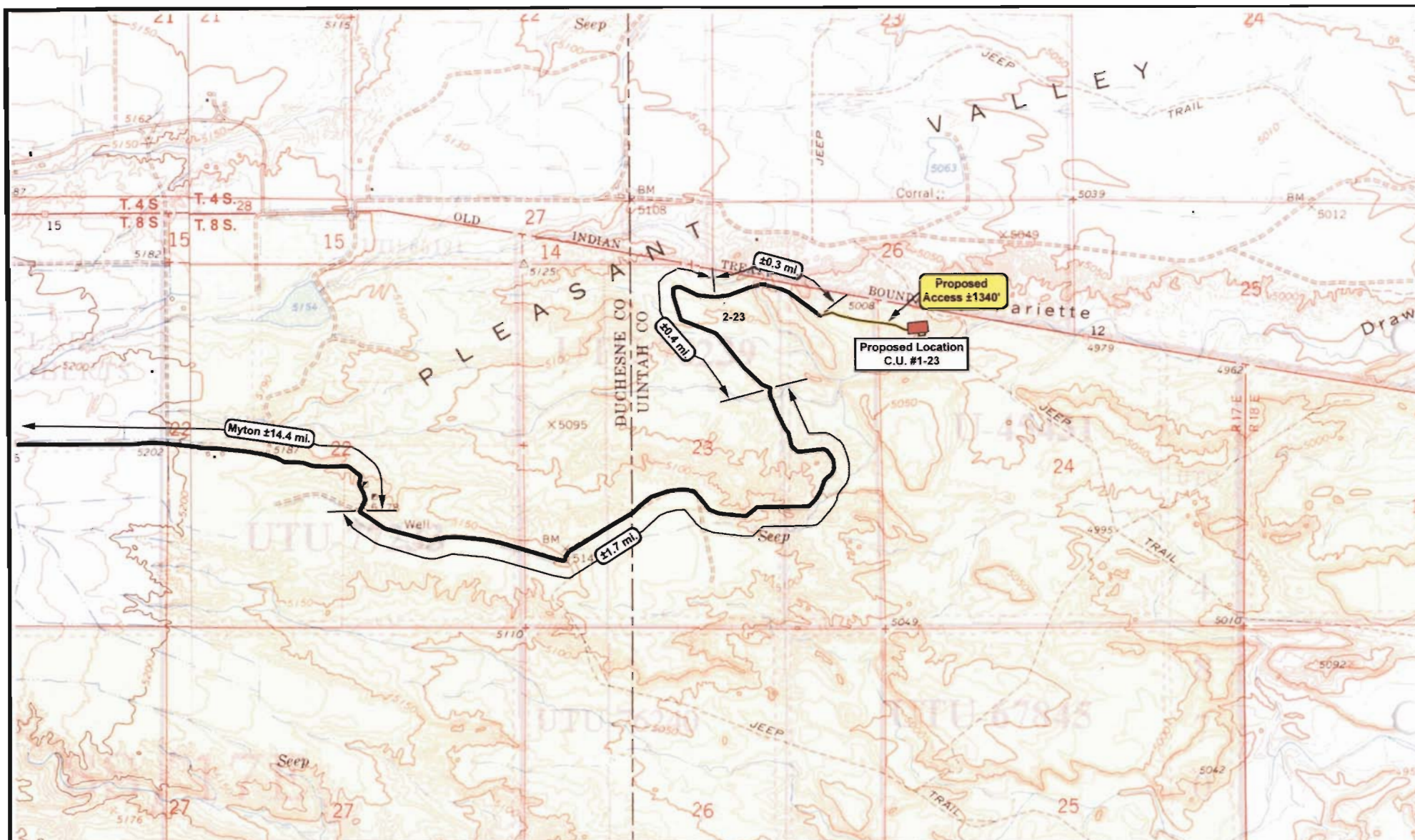
**Legend**

**Existing Road**  
**Proposed Access**

**TOPOGRAPHIC MAP**

**"A"**






**NEWFIELD**  
Exploration Company

**Humpback Unit 4-24**  
**SEC. 24, T8S, R17E, S.L.B.&M.**



*Tri-State*  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

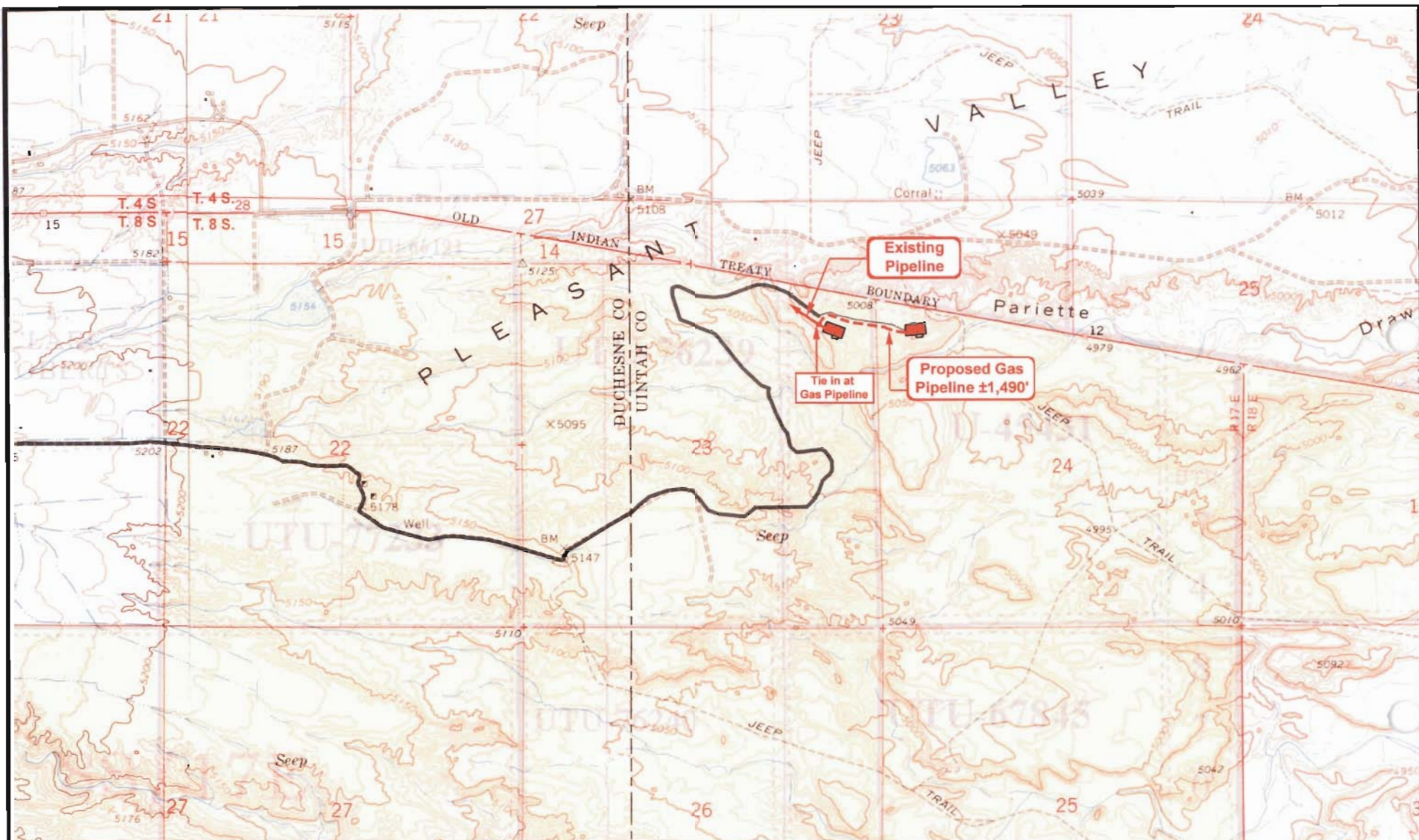
**SCALE: 1" = 2000'**  
**DRAWN BY: MW**  
**DATE: 11-8-2004**







**Legend**

Existing Road  
Proposed Access

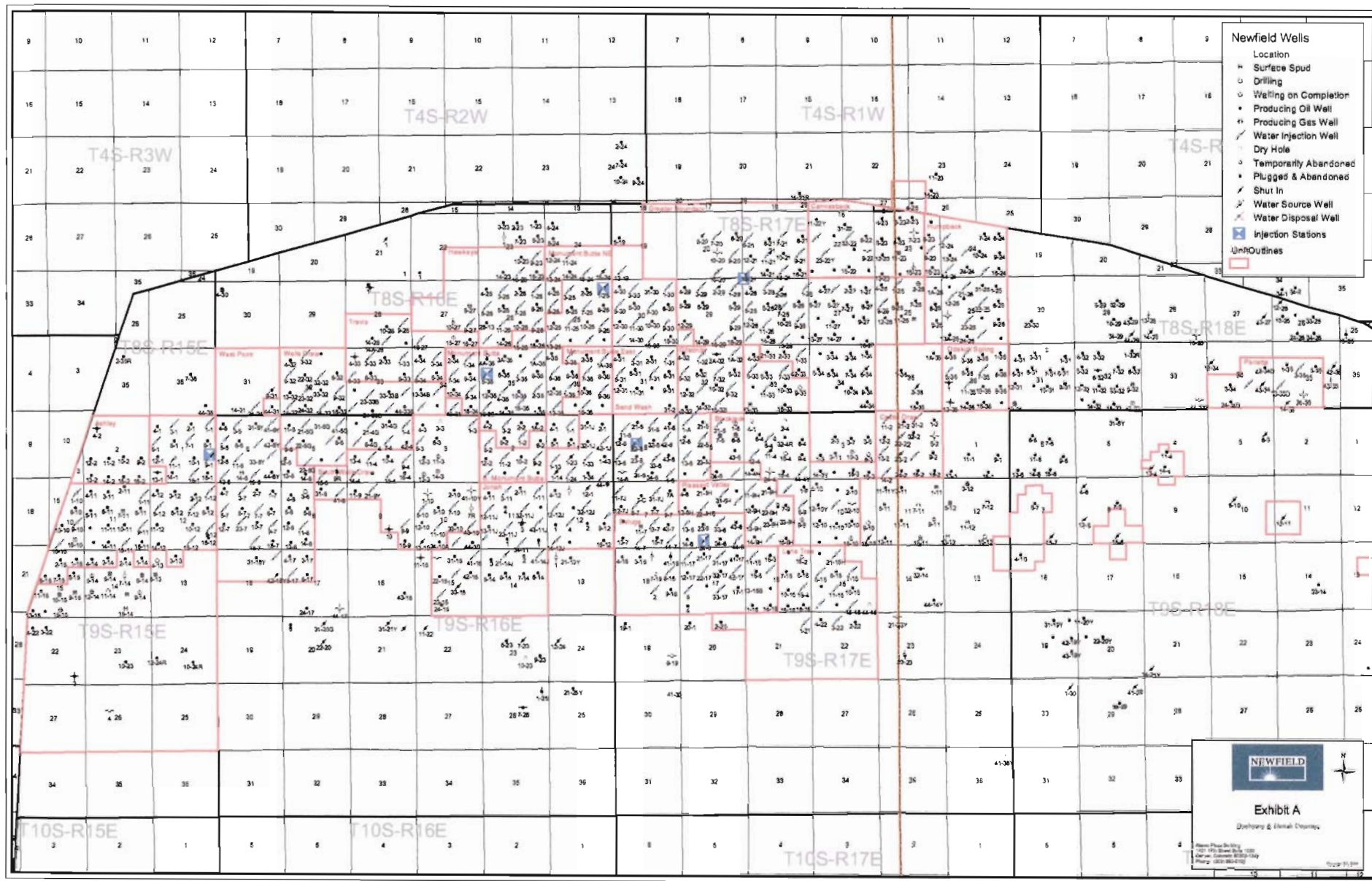
**"B"**



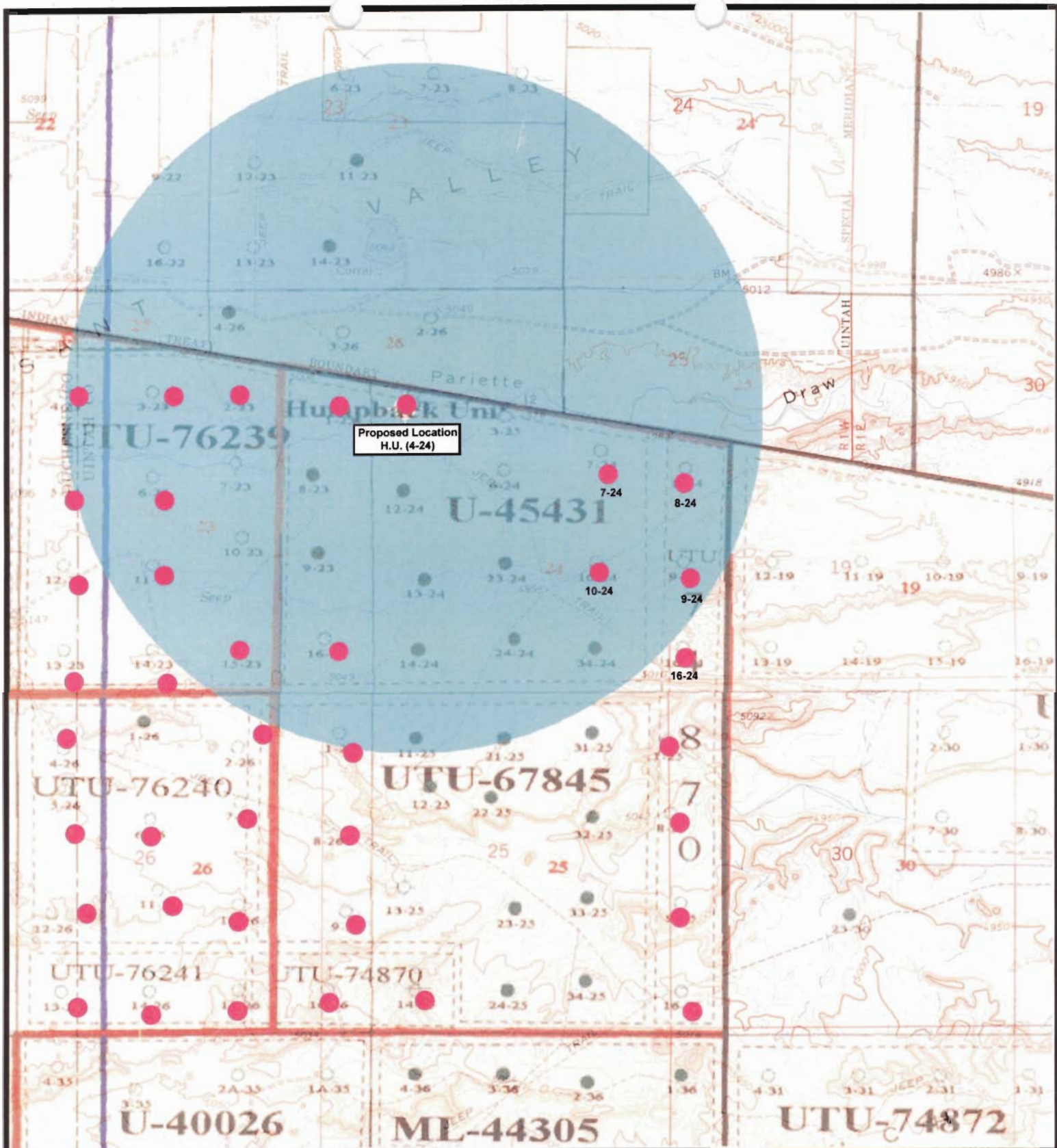


 <p><b>NEWFIELD</b> Exploration Company</p>		 <p><b>Tri-State</b> Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p> <p>SCALE: 1" = 2000'</p> <p>DRAWN BY: MW</p> <p>DATE: 11-8-2004</p>	<p><b>Legend</b></p> <ul style="list-style-type: none"> <li> Roads</li> <li> Existing Gas Line</li> <li> Proposed Gas Line</li> </ul> <p><b>"C"</b></p>
<p><b>Humpback Unit 4-24</b> <b>SEC. 24, T8S, R17E, S.L.B.&amp;M.</b></p>			









**NEWFIELD**  
Exploration Company

**Humpback Unit 4-24**  
**SEC. 24, T8S, R17E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

**SCALE:** 1" = 2000'  
**DRAWN BY:** MW  
**DATE:** 11-9-2004

**Legend**

- Well Locations
- One-Mile Radius

**Exhibit "B"**

## 2-M SYSTEM

Blowout Prevention Equipment Systems

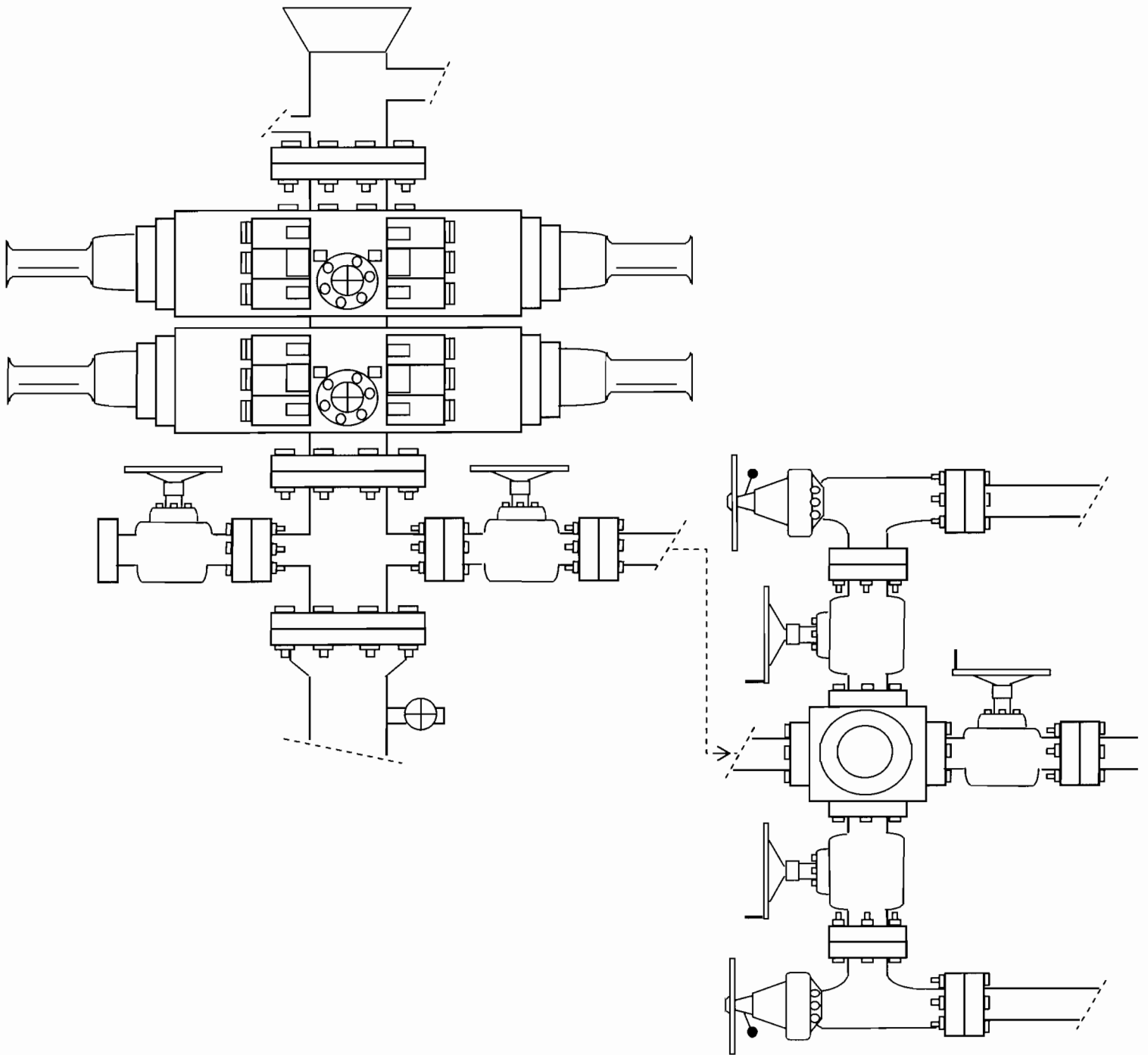


EXHIBIT C

Exhibit "D"  
page 1 of 4

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S 75-ACRE PARCEL IN  
PLEASANT VALLEY, TOWNSHIP 8S, RANGE 17E,  
SECTION 24, UINTAH COUNTY, UTAH

by

Andy Wakefield  
and  
Keith R. Montgomery

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

Newfield Exploration Company  
Route 1  
Box 3630  
Myton, UT 84052

Prepared By:

Montgomery Archaeological Consultants  
P.O. Box 147  
Moab, Utah 84532

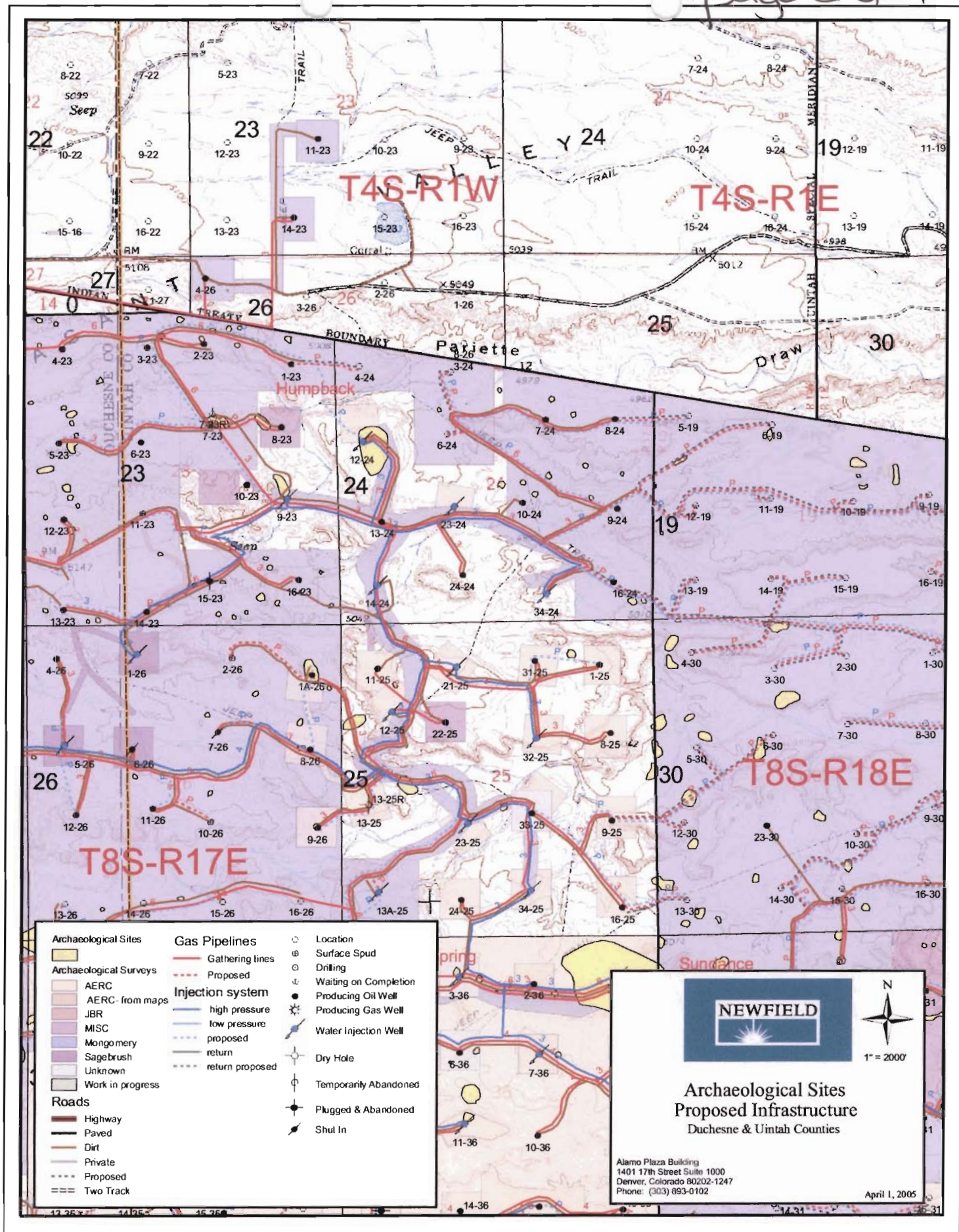
MOAC Report No. 05-04

January 07, 2005

United States Department of Interior (FLPMA)  
Permit No. 04-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-04-MQ-1480b







**NEWFIELD PRODUCTION, INC.**

**PALEONTOLOGICAL FIELD SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE & UTAH COUNTIES, UTAH**

Section 25, T 8 S, R 17 E (SW 1/4, SW 1/4); Section 7, T 9 S, R 16 E  
(SW 1/4, SW 1/4 & SE 1/4, SW 1/4); Section 8, T 9 S, R 18 E (NE 1/4, SW 1/4);  
Section 34, T 9 S, R 16 E (NW 1/4, NW 1/4); Section 28, T 9 S, R 17 E (SE 1/4, NW 1/4);  
Section 35, T 9 S, R 18 E (NE 1/4, NW 1/4); Section 24, T 8 S, R 17 E  
(NE 1/4 & NW 1/4, NW 1/4, and SE 1/4, NW 1/4)

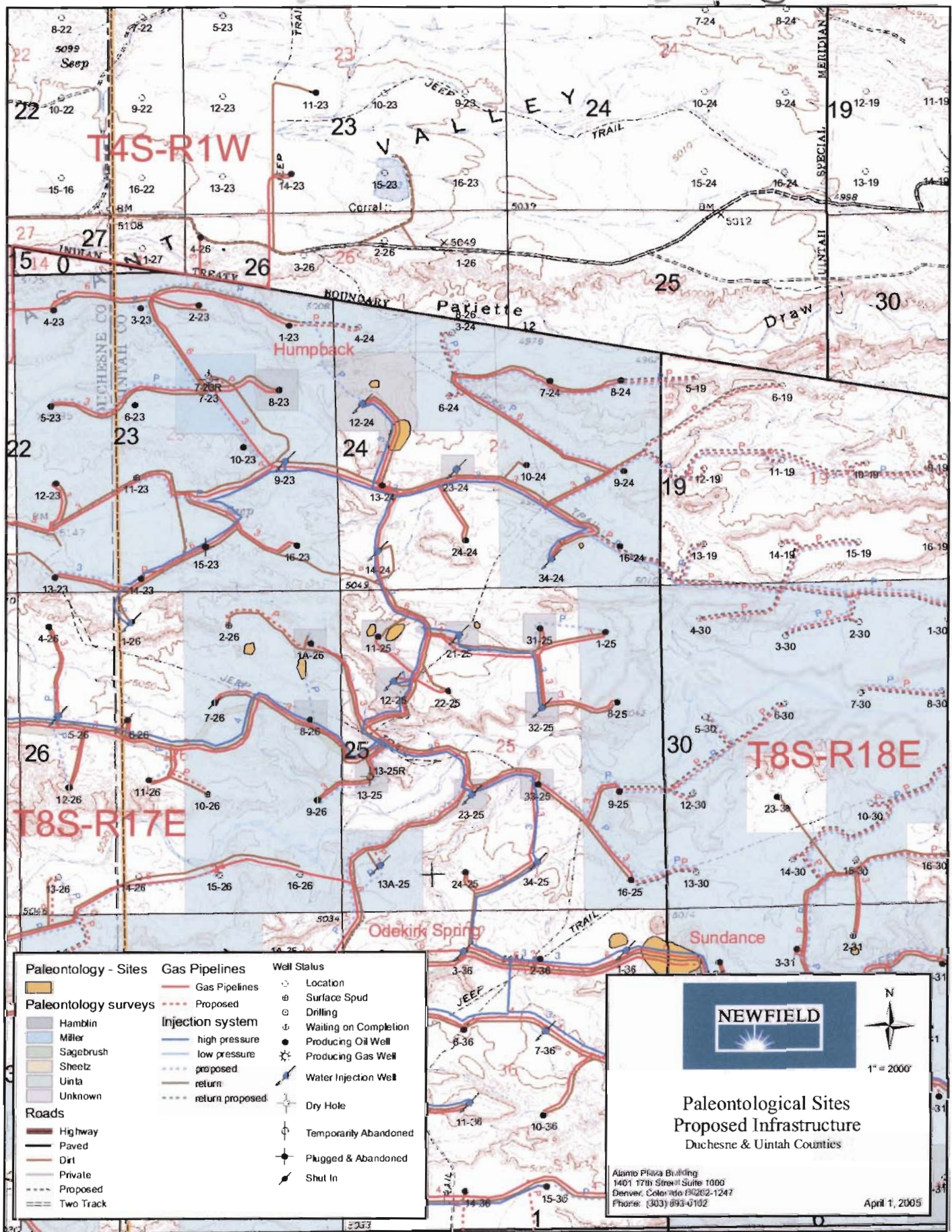
**REPORT OF SURVEY**

Prepared for:

**Newfield Production, Inc.**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
March 8, 2005



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/05/2005

API NO. ASSIGNED: 43-047-36501

WELL NAME: HUMPBACK FED 4-24-8-17

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWNW 24 080S 170E

SURFACE: 0350 FNL 0456 FWL

BOTTOM: 0350 FNL 0456 FWL

UINTAH

MONUMENT BUTTE ( 105 )

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-45431

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LATITUDE: 40.10840

LONGITUDE: -109.9623

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTU0056 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )  
☒ Fee Surf Agreement (Y/N)

LOCATION AND SITING:

\_\_\_\_ R649-2-3.  
Unit HUMPBACK (GREEN RIVER)  
\_\_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☒ R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 238-1  
Eff Date: 1-1-1997  
Siting: Does Not Suspend Gen Siting  
\_\_\_\_ R649-3-11. Directional Drill

COMMENTS: Sep, Separate file

STIPULATIONS: 1- Federal approval







**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

July 19, 2005

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Humpback Federal 4-24-8-17 Well, 350' FNL, 456' FWL, NW NW,  
Sec. 24, T. 8 South, R. 17 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-36501.

Sincerely,

Gil Hunt  
Acting Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Newfield Production Company  
**Well Name & Number** Humpback Federal 4-24-8-17  
**API Number:** 43-047-36501  
**Lease:** UTU-45431

**Location:** NW NW                      **Sec.** 24                      **T.** 8 South                      **R.** 17 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

0006 17

APR 05 2005

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No. UTU-45431
6. If Indian, Allottee or Tribe Name N/A
7. If Unit or CA Agreement, Name and No. Humpback
8. Lease Name and Well No. Humpback Federal 4-24-8-17
9. API Well No. 43-147-316501
10. Field and Pool, or Exploratory Monument Butte
11. Sec., T., R., M., or Blk. and Survey or Area NW/NW Sec. 24, T8S R17E
12. County or Parish Uintah
13. State UT

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone	
2. Name of Operator Newfield Production Company	
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/NW Lot#4 350' FNL 456' FWL At proposed prod. zone	
14. Distance in miles and direction from nearest town or post office* Approximately 16.8 miles southeast of Myton, Utah	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 350' f/lease, 350' f/unit	16. No. of Acres in lease 548.53
17. Spacing Unit dedicated to this well Approx. 40 Acres	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1675'	19. Proposed Depth 6500'
20. BLM/BIA Bond No. on file UT0056	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5006' GL	22. Approximate date work will start* 3rd Quarter 2005
23. Estimated duration Approximately seven (7) days from spud to rig release.	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 4/14/05
Title Regulatory Specialist		
Approved by (Signature) <i>Thomas B. Cleary</i>	Name (Printed/Typed) Thomas B. Cleary	Date 11/16/2005
Title Assistant Field Manager Mineral Resources	Office	

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED  
RECEIVED  
POSTED

NOV 22 2005

MAY 18 2005  
FROM TO

DIV. OF OIL, GAS & MINING

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Operator/Company: Newfield Production Co.  
Well Name/Number: Humpback Federal 4-24-8-17  
API Number: 43-047-36501  
Location: NWNW Sec Tship Rng.: 24, T8S, R17E.  
Lease Number: UTU-45431  
Agreement Name (If Applicable): N/A

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

**CONDITIONS OF APPROVAL FOR NOTICE TO DRILL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware that fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

**Please submit an electronic copy of all logs run on this well in LAS format. This submission will supersede the requirement for submittal of paper logs to the BLM. The cement bond log must be submitted in raster format (TIF, PDF or other).**

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Michael Lee (435) 828-7875  
Petroleum Engineer

Matt Baker (435) 828-4470  
Petroleum Engineer

BLM FAX Machine (435) 781-4410



Company/Operator: Newfield Production Company

API Number 43-047-36501

Well Name & Number: Humpback Federal 4-24-8-17

Lease Number: U-45431

Location: NWNW Sec. 24 T. 8 S. R. 17 E.

Surface Ownership: BLM

Date NOS Received: None

Date APD Received: 4-5-05

-4 to 6 inches of topsoil shall be stripped from the locations and placed where it can most easily be recovered for interim reclamation. The topsoil shall be respread over the entire location as soon as completion operations have been finished and recontouring of fill slopes is complete. At this point the production equipment can be set. The areas of the location not needed for production operations, including the reserve pits, shall be seeded with crested wheatgrass (variety Hycrest) at a rate of 12 lbs/ acre (pure live seed). The interim seeding shall be done by either drilling the seed or by broadcasting the seed and dragging it with a spike tooth harrow.

-The gas lines shall be buried by trenching in the borrow ditches of the road and the trench material side cast into the existing vegetation. When backfilling the trenches, care should be taken to disturbance as little of the vegetation as possible and thus allowing the existing plants to reestablish on their own, however, these areas should also be seeded with crested wheatgrass at the 12 lb/acre rate to ensure vegetation establishment and to keep invasive weeds to a minimum. All seeding of the pipelines shall be completed using a seed drill.

-No pipeline construction will be allowed when soils are muddy and rutting of soils becomes apparent from the use of vehicles. If rutting occurs, operations must cease until soils are dry or frozen.

**-Prior to construction, a certified botanist shall survey the proposed disturbance areas** to determine if Sclerocactus are present. If plants are found, the access road and or well location will have to be moved to avoid the plants.

## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: HUMPBAC FED 4-24-8-17

Api No: 43-047-36501 Lease Type: FEDERAL

Section 24 Township 08S Range 17E County UINTAH

Drilling Contractor ROSS DRILLING RIG # 24

### **SPUDDED:**

Date 12/02/05

Time 3:30 PM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by TROY

Telephone # 1-435-823-6013

Date 12/05/2005 Signed CHD

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN DUPLICATE. Other instructions on reverse side.

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Newfield Production Company

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone No. (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
350 FNL 456 FWL  
NW/NW Section 24 T8S R17E

5. Lease Serial No.

UTU45431

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.  
HUMPBAC UNIT

8. Well Name and No.  
HUMPBAC 4-24-8-17

9. API Well No.  
4304736501

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State  
Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 12/2/04 MIRU Ross # 24. Drill 332' of 12 1/4" hole with air mist. TIH W/ 8 Jt's 8 5/8" J-55 24 # csgn. Set @ 337' KB On 12/4/05 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cfl/sk yeild. Returned 5 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)  
Alvin Nielsen

Signature

*Alvin Nielsen*

Title

Drilling Foreman

Date

12/05/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

DEC 07 2005

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 337.34

LAST CASING 8 5/8" SET AT 337.34'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 332' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company  
 WELL Federal 4-24-8-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross rig # 24

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint 38.40'					
		WHL - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	325.49
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			327.34
TOTAL LENGTH OF STRING		327.34	7	LESS CUT OFF PIECE			2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			<b>337.34</b>
TOTAL		325.49	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRS)		325.49	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.	Spud	12/2/2005	3:30 PM	GOOD CIRC THRU JOB <u>YES</u>			
CSG. IN HOLE		12/4/2005	11:00 AM	Bbls CMT CIRC TO SURFACE <u>5</u>			
BEGIN CIRC		12/4/2005	12:57 PM	RECIPROCATED PIPE FOR <u>N/A</u>			
BEGIN PUMP CMT		12/4/2005	1:01 PM				
BEGIN DSPL. CMT		12/4/2005	1:11 PM	BUMPED PLUG TO <u>185</u> PSI			
PLUG DOWN		12/4/2005	1:26 PM				
CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third for 3							

COMPANY REPRESENTATIVE Alvin Nielsen DATE December 5, 2005

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR: **NEWFIELD PRODUCTION COMPANY**  
ADDRESS: **RT. 3 BOX 3630**  
**MYTON, UT 84052**

OPERATOR ACCT NO. **N2695**

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	15091	43-013-32707	FEDERAL 5-35-8-17	SNNW	35	8S	17E	DUCHESE	12/02/05	12/8/05
WELL 1 COMMENTS: <b>GRUV</b> <span style="float: right;">- J</span>											
B	99999	12053	43-047-36501	HUMPBAC 4-24-8-17	NWNW	24	8S	17E	UNTAH	12/02/05	12/8/05
WELL 2 COMMENTS: <b>GRUV</b> <span style="float: right;">- K</span>											
B	99999	14844	43-047-36049	FEDERAL 4-9-9-18	NWNW	9	9S	18E	UNTAH	12/03/05	12/8/05
WELL 3 COMMENTS: <b>GRUV</b> <span style="float: right;">- J</span>											
A	99999	15092	43-013-32706	FEDERAL 4-35-8-17	NWNW	35	8S	17E	DUCHESE	12/05/05	12/8/05
WELL 4 COMMENTS: <b>GRUV</b> <span style="float: right;">- J</span>											
B	99999	12053	43-047-36497	HUMPBAC 6-24-8-17	SENN	24	8S	17E	UNTAH	12/05/05	12/8/05
WELL 5 COMMENTS: <b>GRUV</b> <span style="float: right;">- J</span>											
B	99999	14844	43-047-35840	FEDERAL 13-9-9-18	SWSW	9	9S	18E	UNTAH	12/05/05	12/8/05
WELL 6 COMMENTS: <b>GRUV</b> <span style="float: right;">- J</span>											

ACTION CODES: See instructions on back of form

- A - Establish new entity for new well (single well entry)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENTS section to explain why each Action Code was selected.

RECEIVED  
DEC 08 2005

DIV. OF OIL, GAS & MINING

*Kim Kettle*  
Signature **Kim Kettle**  
Production Clerk  
December 8, 2005  
Date

12/08/2005 11:08

4356463031

INLAND

PAGE 03

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Newfield Production Company

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

350 FNL 456 FWL

NW/NW Section 24 T8S R17E

5. Lease Serial No.

UTU45431

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

HUMPBAC UNIT

8. Well Name and No.

HUMPBAC 4-24-8-17

9. API Well No.

4304736501

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State

Uintah, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Variance _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production Company is requesting a variance from Onshore Order 43 CFR Part 3160 Section 4 requiring production tanks to be equipped with Enardo or equivalent vent line valves. Newfield operates wells that produce from the Green River formation, which are relatively low gas producers (20 mcfpd). The majority of the wells are equipped with a three phase separator to maximize gas separation and sales.

Newfield is requesting a variance for safety reasons. Crude oil production tanks equipped with back pressure devices will emit a surge of gas when the thief hatches are open. While gauging tanks, lease operators will be subject to breathing toxic gases as well as risk a fire hazard, under optimum conditions

I hereby certify that the foregoing is true and correct

Name (Printed/Typed)  
Mandie Crozier

Title

Regulatory Specialist

Signature

Date

01/12/2006

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Date

Federal Approval Of This  
Action Is Necessary

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any statement or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

Date:

By:

JAN 13 2006

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

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☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Newfield Production Company

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

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350 FNL 456 FWL

NW/NW Section 24 T8S R17E

5. Lease Serial No.

UTU45431

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

HUMPBAC UNIT

8. Well Name and No.

HUMPBAC 4-24-8-17

9. API Well No.

4304736501

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State

Uintah, UT

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<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

I hereby certify that the foregoing is true and correct

Name (Printed Typed)

Mandie Crozier

Title

Regulatory Specialist

Signature

Date

01/12/2006

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

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Title

Date

Office

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(Instructions on reverse)

**JAN 13 2006**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
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Myton, UT 84052

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8. Well Name and No.

HUMPBAC 4-24-8-17

9. API Well No.

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<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Status report for time period 12/29/05 - 01/10/06

Subject well had completion procedures initiated in the Green River formation on 12-29-05 without the use of a service rig over the well. A cement bond log was run and a total of four Green River intervals were perforated and hydraulically fracture treated with 20/40 mesh sand. Perforated intervals are as follows: Stage #1 (6215'-6228'), (6169'-6179'); Stage #2 (6067'-6076'); Stage #3(5456'-5480'),(5422'-5442'),(5241'-5147'); Stage #4 (4768'-4776'). All perforations, were 4 JSPF. Composite flow-through frac plugs were used between stages. Fracs were flowed back through chokes. A service rig was moved over the well on 01-05-2006. Bridge plugs were drilled out and well was cleaned to 6400'. Zones were swab tested for sand cleanup. A new 1 1/2" bore rod pump was run in well on sucker rods. Well was placed on production via rod pump on 01-10-2006.

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)  
Lana Nebeker

Title

Production Clerk

Signature

Date

02/08/2006

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

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Title

Date

Office

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(Instructions on reverse)

**RECEIVED**  
**FEB 09 2006**

DIV. OF OIL, GAS & MINING



(See other instructions on reverse side)

OMB NO. 1004-0137  
Expires: February 28, 1995

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WORK

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_

1b. TYPE OF WELL

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

Newfield Exploration Company

3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface 350' FNL & 456' FWL (NW/NW) Sec. 24, T8S, R17E

At top prod. Interval reported below

At total depth

14. API NO.

43-047-36501

DATE ISSUED

7/19/05

12. COUNTY OR PARISH

Uintah

13. STATE

UT

15. DATE SPUDDED

12/2/05

16. DATE T.D. REACHED

12/15/05

17. DATE COMPL. (Ready to prod.)

1/10/06

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5006' GL

5016' KB

19. ELEV. CASING HEAD

20. TOTAL DEPTH, MD & TVD

6460'

21. PLUG BACK T.D., MD & TVD

6400'

22. IF MULTIPLE COMPL. HOW MANY\*

23. INTERVALS DRILLED BY

----->

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

Green River 4768'-6228'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB/FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	337'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6445'	7-7/8"	350 sx Premlite II and 500 sx 50/50 Poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 6293'	TA @ 6198'

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP2&3) 6169'-6179', 6215'-6228'	.41"	4/92	6169'-6228'	Frac w/ 39,225# 20/40 sand in 482 bbls fluid
(CP.5) 6067'-6076'	.41"	4/36	6067'-6076'	Frac w/ 30,095# 20/40 sand in 381 bbls fluid
(C) 5422'-5442', 5456'-5480'	.41"	4/176	5422'-5480'	Frac w/ 129,679# 20/40 sand in 922 bbls fluid
(D1) 5241'-5247'	.41"	4/24	5241'-5247'	Frac w/ 20,243# 20/40 sand in 308 bbls fluid
(GB6) 4768'-4776'	.41"	4/32	4768'-4776'	Frac w/ 23,267# 20/40 sand in 317 bbls fluid

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or Shut-in)
1/10/06	2-1/2" x 1-1/2" x 14' RHAC SM Plunger Pump	PRODUCING

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL/S	GAS--MCF	WATER--BBL	GAS-OIL RATIO
30 day ave			----->	73	11	81	151

FLOW, TUBING PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL	GAS--MCF	WATER--BBL	OIL GRAVITY--API (CORR)
		----->				

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold & Used for Fuel

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

Signed

*Wanda Cruz*

Regulatory Specialist

FEB 22 2006

204 2006

DIV. OF OIL, GAS & MINING

37	SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);			38.	GEOLOGIC MARKERS		
	FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
						MEAS. DEPTH	TRUE VERT. DEPTH
				Well Name	Garden Gulch Mkr	4178'	
				Humpback Federal 4-24-8-17	Garden Gulch 1	4403'	
					Garden Gulch 2	4529'	
					Point 3 Mkr	4820'	
					X Mkr	5043'	
					Y-Mkr	5073'	
					Douglas Creek Mkr	5206'	
					BiCarbonate Mkr	5532'	
					B Limestone Mkr	5691'	
					Castle Peak	6051'	
					Basal Carbonate	6468'	
					Total Depth (LOGGERS)	6459'	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129

Phone 800-227-8917

<http://www.epa.gov/region08>

Ref: 8P-W-GW

DEC 07 2009

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, CO 80202

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

RE: Additional Well: Humpback Area Permit  
UIC Permit No. UT20852-00000  
Well ID: UT20852-08589  
Humpback No. 4-24-8-17  
350' FNL & 456' FWL  
NW NW Sec. 24 T8S-R17E  
Uintah County, Utah  
API #43-047-36501

Dear Mr. Sundberg:

Newfield Production Company's (Newfield) request to convert the former Green River Formation oil well Humpback No. 4-24-8-17 to an enhanced recovery injection well under the Humpback Area Permit is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization for Additional Well.

The addition of the proposed injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of Humpback Area Permit No. UT20852-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by EPA, and has received written authorization from the Director to begin injection. Please note that the Permit limits injection to the gross interval within the Green River Formation between the depths of 4,222 feet and the top of Wasatch Formation, estimated at 6,593 feet.

**RECEIVED**

**DEC 14 2009**

**DIV. OF OIL, GAS & MINING**


Prior to receiving authorization to inject into Humpback No. 4-24-8-17, EPA requires Newfield submit for review and approval the results of a Part 1 (Internal) mechanical integrity test (MIT), a pore pressure calculation of the injection interval and an EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram. Once these requirements have been approved by EPA, the Director will provide written authorization to commence injection.

The initial Maximum Allowable Injection Pressure (MAIP) for Humpback No. 4-24-8-17 was determined to be 1,145 psig. UIC Area Permit UT20852-00000 also provides the opportunity for the Permittee to request a change in the MAIP based upon results of a Step Rate Test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or 1-(800)-227-8917 (Ext. 312-6174). Please submit the required data to Attention: Emmett Schmitz at the letterhead address, citing MAIL CODE: 8P-W-GW very prominently.

Sincerely,



 Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Encl: Authorization for Conversion of an Additional Well  
EPA Form No. 7520-12 (Well Rework Record)  
Proposed Conversion Schematic: Humpback No. 4-24-8-17  
P&A Schematic: Humpback No. 4-24-8-17  
EPA Form No. 7520-13 (Plugging Record)

cc: Permit Letter:  
Uintah & Ouray Business Committee:  
Curtis Cesspooch, Chairman  
Irene Cuch, Vice-Chairwoman  
Ronald Groves, Councilman  
Steven Cesspooch, Councilman  
Phillip Chimburas, Councilman  
Frances Poowegup, Councilwoman

Daniel Picard, Superintendent  
Uintah & Ouray Indian Agency  
Bureau of Indian Affairs

All Enclosures:

Ferron Secakuku  
Director, Natural Resources  
Ute Indian Tribe

Larry Love  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Gil Hunt  
Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Michael Guinn  
District Manager  
Newfield Production Company  
Myton, Utah

RECEIVED

DEC 14 2009

DIV. OF OIL, GAS & MINING



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
1595 WYNKOOP STREET  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

## AUTHORIZATION FOR ADDITIONAL WELL

**UIC Area Permit No: UT20852-00000**

The Humpback Final UIC Area Permit No. UT20852-00000, effective October 8, 1998, authorizes injection for the purpose of enhanced oil recovery in the Greater Monument Butte Field. On October 8, 2009, Newfield Production Company (Newfield) notified the Director concerning the following additional enhanced recovery injection well:

Well Name:	Humpback No. 4-24-8-17
EPA Well ID Number:	UT20852-08589
Location:	350' FNL & 456' FWL NW NW Sec. 24 T8S-R17E Uintah County, Utah API #43-047-36501

Pursuant to 40 CFR §144.33, Humpback Area UIC Permit No. UT20852-00000 authorizes the Permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the Area Permit. This well was determined to satisfy additional well criteria required by the Permit.

This well is subject to all provisions of UIC Area Permit No. UT20852-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the Permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: DEC 07 2009

  
for **Stephen S. Tuber**

\*Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

RECEIVED

DEC 14 2009

DIR. OF OIL, GAS & MINING

*\* The person holding this title is referred to as the Director throughout the permit and Authorization*

Authorization for Additional Well: UIC Area Permit UT20852-00000  
Well: Humpback No. 4-24-8-17 EPA Well ID: UT20852-08589

Printed on Recycled Paper

## **INJECTION WELL-SPECIFIC REQUIREMENTS**

Well Name: Humpback No. 4-24-8-17  
EPA Well ID Number: UT20852-08589

### **Prior to Commencing Injection Operations, the permittee shall submit the following information:**

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram.
2. Pore pressure calculation of the proposed injection zone;
3. A successful Part I (internal) Mechanical Integrity test (MIT)

Once these records are received and approved by EPA, the Director will provide written authorization to inject.

**Approved Injection Zone:** Injection is approved between the top of the Garden Gulch Member of the Green River Formation at 4,222 feet to the top of the Wasatch Formation, at an estimated depth of 6,593 feet (KB).

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is 1,145 psig, based on the following calculation:

$MAIP = [FG - (0.433)(SG)] * D$ , where

FG = 0.68 psi/ft    SG = 1.015    D = 4,768 feet (top perforation depth KB)

**MAIP = 1,145 psig**

UIC Area Permit No. UT20852-00000 provides the opportunity for the Permittee to request a change of the MAIP based upon the submitted results of a Step Rate Test that demonstrates the formation breakdown pressure will not be exceeded.

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c).

Cementing records, including the cement bond log, have satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

**Well Construction: Tubing and Packer:** 2-7/8 inch or similar size injection tubing is approved; the packer shall be set at a depth no more than 100 feet above the top perforation.

### **Demonstration of Mechanical Integrity:**

- (1) A successful demonstration of Part I (Internal) Mechanical Integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.

(2) EPA reviewed the cementing records and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR §146.8 (a)(2). Demonstration of Part II (External) Mechanical Integrity is not required at this time.

**Demonstration of Financial Responsibility:** The Applicant has demonstrated financial responsibility by a Financial Statement in the amount of \$59,344 that has been approved by EPA. The Director may revise the amount required, and may require the Permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment Plan.

**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 feet surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 50 feet above the top perforation with a minimum 20-foot cement plug on top of the CIBP.

PLUG NO. 2: Perforate and squeeze cement up the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Bench from approximately 3,335 feet to 3,500 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 165-foot balanced cement plug inside the 5-1/2 inch casing from approximately 3,335 feet - 3,500 feet (KB).

PLUG NO. 3: Perforate and squeeze cement up the backside of the 5-1/2 inch casing across the contact between the Uinta Formation and Green River Formation 1,725 feet - 1,845 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the 5-1/2 inch casing from approximately 1,725 feet - 1,845 feet (KB).

PLUG NO. 4: Set a Class "G" cement plug within the 5-1/2 inch casing to 387 feet and up the 5-1/2 inch x 8-5/8 inch casing annulus to the surface.



## **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: Humpback No. 4-24-8-17  
EPA Well ID Number: UT20852-08589

**Underground Sources of Drinking Water (USDWs):** USDWs in the Humpback Area Permit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 100 feet below ground surface in the Humpback No. 4-24-8-17.

**http:NRWRT1.NR.STATE.UT.US:** There are no reservoirs, streams, domestic or agricultural water wells within a quarter (1/4) mile of the well.

**Composition of Source, Formation, and Injectate Water: (Total Dissolved Solids [TDS]:**  
- TDS of the Garden Gulch - Douglas Creek Members of the Green River Formation produced water: 24,7221 mg/l.

- TDS of Humpback Facility Injection System injectate: 3,186 mg/l.

**Aquifer Exemption:** An Aquifer Exemption is not required because the TDS of the produced water from the proposed injection well is greater than 10,000 mg/l.

**Confining Zone:** The Confining Zone, which directly overlies the Garden Gulch Member of the Green River Formation, is 170 feet of shale between the depths of 4,052 feet – 4,222 feet (KB).

**Injection Zone:** The Injection Zone at this well location is approximately 2,371 feet of multiple lenticular sand units interbedded with shale, marlstone and limestone from the top of the Garden Gulch Member at 4,222 feet (KB) to the top of the Wasatch Formation which is estimated to be 6,593 feet (KB). All formation tops are based on correlations to the Newfield Production Company Federal No. 1-26-8-17 (UT20702-04671) Type Log.

### **Well Construction**

**Surface Casing:** 8-5/8 inch casing is set at 337 feet (KB) in a 12-1/4 inch hole, using 160 sacks Class "G" cement, cemented to the surface.

**Longstring Casing:** 5-1/2 inch casing is set at 6,445 feet (KB) in a 7-7/8 inch hole secured with 850 sacks of cement. Total driller depth 6,460 feet. Plugged back total depth is 6,400 feet EPA calculates top of cement at 951 feet. CBL top of cement is 53 feet.

**Perforations:** Top perforation: 4768 feet (KB). Bottom perforation: 6,228 feet (KB).

## AREA OF REVIEW (AOR) WELL REQUIREMENTS

Four (4) wells within or proximate to a 1/4 mile radius around the Humpback No. 4-24-8-17 were evaluated to determine if any corrective action is required. No Corrective Action is required.

Humpback No. 1-23-8-17                      API: 43-047-34566                      UT20852-06736

Federal J-23-8-17                      API: 43-047-39974

Pariette Federal No. 12-24-8-17                      API: 43-047-32713                      UT20852-04452

Hancock No. 2-26-4-1W                      API: 43-047-50011

### Reporting of Noncompliance:

- (a) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

**Twenty-Four Hour Noncompliance Reporting:** The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.

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- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

**Oil Spill and Chemical Release Reporting:** The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1-(800)-424-8802 or 1-(202)-267-2675**, or through the **NRC website at <http://www.nrc.uscg.mil/index.htm>**

**Other Noncompliance:** The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

**Other Information:** Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.



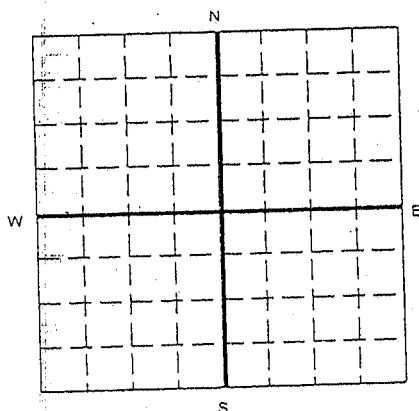
United States Environmental Protection Agency  
Washington, DC 20460

# WELL REWORK RECORD

Name and Address of Permittee

Name and Address of Contractor

Locate Well and Outline Unit on  
Section Plat - 640 Acres



State

County

Permit Number

Surface Location Description

\_\_\_\_ 1/4 of \_\_\_\_ 1/4 of \_\_\_\_ 1/4 of \_\_\_\_ 1/4 of Section \_\_\_\_ Township \_\_\_\_ Range \_\_\_\_

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location \_\_\_\_ ft. frm (N/S) \_\_\_\_ Line of quarter section

and \_\_\_\_ ft. from (E/W) \_\_\_\_ Line of quarter section.

WELL ACTIVITY

- ☐ Brine Disposal  
☐ Enhanced Recovery  
☐ Hydrocarbon Storage

Lease Name

Total Depth Before Rework

Total Depth After Rework

Date Rework Commenced

Date Rework Completed

TYPE OF PERMIT

☐ Individual☐ Area

Number of Wells \_\_\_\_

Well Number

## WELL CASING RECORD -- BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

## WELL CASING RECORD -- AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL  
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS, LIST EACH TYPE

Log Types

Logged Intervals

## Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Signature

Date Signed

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DIV. OF OIL, GAS &amp; MINING

UT 20852-08589  
Humpback Federal #4-24-8-17

Spud Date: 12/2/05  
Put on Production: 1/10/06  
GL: 5006' KB: 5016'

Proposed Injection  
Wellbore Diagram

Initial Production: BOPD,  
MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8" *Base USDWs <100'*  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (327.34')  
DEPTH LANDED: 337.34' KB *Green River 1788'*  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160sxs Class "G" mixed cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 152 jts. (6446.59')  
DEPTH LANDED: 6444.59' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sxs Prem. Lite II mixed & 500 sxs 50/50 POZ mix.  
CEMENT TOP AT: 53'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 202 jts (6188.16')  
TUBING ANCHOR: 6198.16' KB  
NO. OF JOINTS: 1 jt (29.10')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 6230.06' KB  
NO. OF JOINTS: 2 jts (61.82')  
TOTAL STRING LENGTH: EOT @ 6293.43' w/ 10' KB'

FRAC JOB

01/03/06 6169'-6228' **Frac CP2&3 sands as follows:**  
39,225# 20/40 sand in 482 bbls lightning  
Frac 17 fluid. Treated @ avg press of 1816 psi  
w/avg rate of 24.8 BPM. ISIP 1800 psi. Calc  
flush: 6167 gal. Actual flush: 5661 gal.

01/03/06 6067'-6076' **Frac CP.5 sands as follows:**  
30,095# 20/40 sand in 381 bbls lightning  
Frac 17 fluid. Treated @ avg press of 1690 psi  
w/avg rate of 24.9 BPM. ISIP 1930 psi. Calc  
flush: 6065 gal. Actual flush: 5451 gal.

01/03/06 5422'-5480' **Frac C sands as follows:**  
129,679# 20/40 sand in 922 bbls lightning  
Frac 17 fluid. Treated @ avg press of 1026 psi  
w/avg rate of 25.1 BPM. ISIP 1360 psi. Calc  
flush: 5420 gal. Actual flush: 4922 gal.

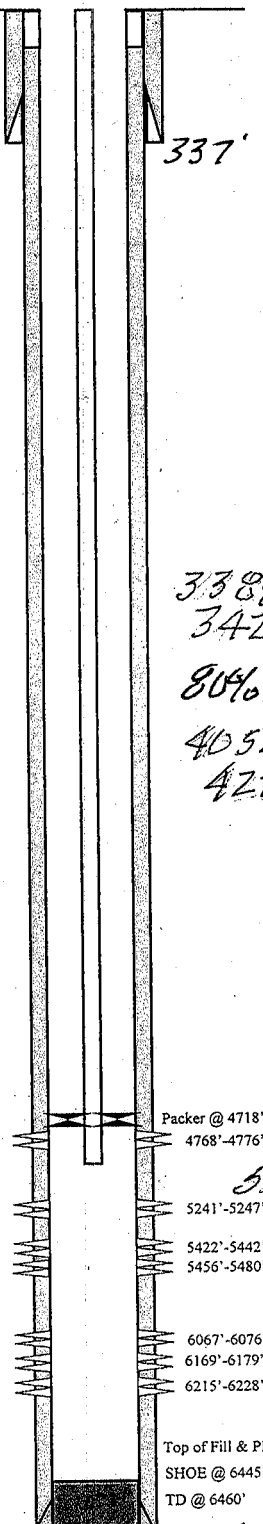
01/04/06 5241'-5247' **Frac D1 sands as follows:**  
20,243# 20/40 sand in 308 bbls lightning  
Frac 17 fluid. Treated @ avg press of 1467 psi  
w/avg rate of 24.7 BPM. ISIP 1725 psi. Calc  
flush: 5239 gal. Actual flush: 4662 gal.

01/04/06 4768'-4776' **Frac GB6 sands as follows:**  
23,267# 20/40 sand in 317 bbls lightning  
Frac 17 fluid. Treated @ avg press of 2039 psi  
w/avg rate of 24.6 BPM. ISIP 2460 psi. Calc  
flush: 4766 gal. Actual flush: 4662 gal.

*3388'-3426' Trona  
3426'-3448' Mahogany Bench  
8046 BOND 3746'-4340'  
4052'-4222' Confining Zone  
4222' Garder Gulch*

PERFORATION RECORD

Date	Interval	Tool	Holes
01/04/06	4768'-4776'	4 JSPF	32 holes
01/03/06	5241'-5247'	4 JSPF	24 holes
01/03/06	5422'-5442'	4 JSPF	80 holes
01/03/06	5456'-5480'	4 JSPF	96 holes
01/03/06	6067'-6076'	4 JSPF	36 holes
12/29/05	6169'-6179'	4 JSPF	40 holes
12/29/05	6215'-6228'	4 JSPF	52 holes



**NEWFIELD**

Humpback Federal #4-24-8-17

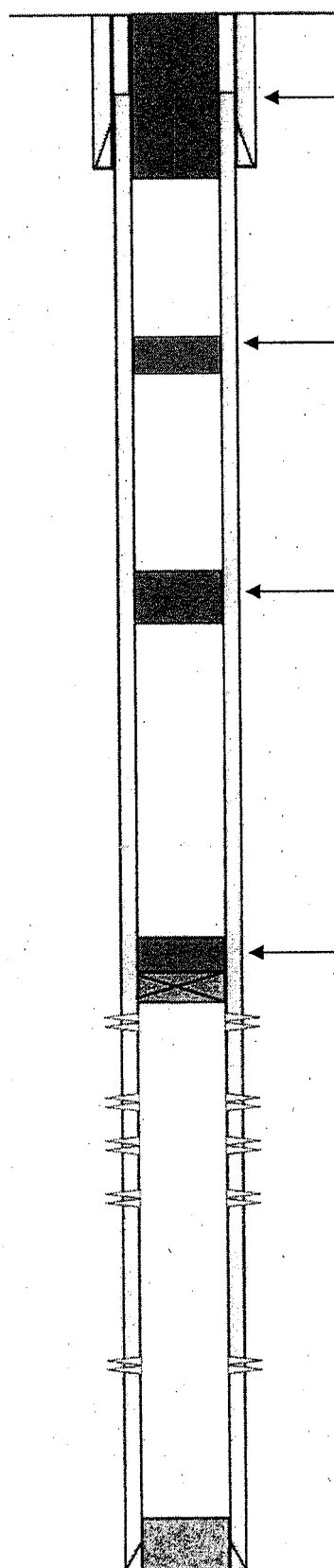
350' FNL & 456' FWL

NW/NW Section 24-T8S-R17E

Uintah County, Utah

API #43-047-36501; Lease #U-45431

## Plugging and Abandonment Diagram for Humpback Federal 4-24-8-17



Plug 4: Set a Class "G" cement plug within the 5-1/2 inch casing surface to 387 feet and up the 5-1/2 inch X 8-5/8 inch casing annulus to the surface.

Plug 3: Perforate and squeeze cement up the backside of the casing across the contact between the Uinta Formation and Green River Formation 1,725 feet – 1,845 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the casing from approximately 1,725 feet – 1,845 feet.

Plug 2: Perforate and squeeze cement up the backside of the casing across the Trona Zone and the Mahogany Bench from approximately 3,335 feet – 3,500 feet (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 165-foot balanced cement plug inside the casing from approximately 3,335 feet – 3,500 feet.

Plug 1: Set a cast iron bridge plug (CIBP) no more than 50 ft above the top perforation with a minimum of 20 ft cement plug on top of the CIBP.

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DIV. OF OIL, GAS & MINING


 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 WASHINGTON, DC 20460

**PLUGGING RECORD**

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CEMENTING COMPANY

 LOCATE WELL AND OUTLINE UNIT ON  
 SECTION PLAT — 640 ACRES

N


S

W

E

STATE

COUNTY

PERMIT NUMBER

## SURFACE LOCATION DESCRIPTION

1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface

Location ft. from (N/S) Line of quarter section

and ft. from (E/W) Line of quarter section

## TYPE OF AUTHORIZATION

- ☐ Individual Permit  
☐ Area Permit  
☐ Rule

Number of Wells

Lease Name

Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole

## CASING AND TUBING RECORD AFTER PLUGGING

## METHOD OF EMPLACEMENT OF CEMENT PLUGS

SIZE	WT(LB/FT)	TO BE PUT IN WELL(FT)	TO BE LEFT IN WELL(FT)	HOLE SIZE

- ☐ CLASS I  
☐ CLASS II  
☐ CLASS III
- ☐ Brine Disposal  
☐ Enhanced Recovery  
☐ Hydrocarbon Storage
- ☐ The Balance Method  
☐ The Dump Bailer Method  
☐ The Two-Plug Method  
☐ Other

CEMENTING TO PLUG AND ABANDONED DATA	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type cement or other material (Class III)							

## LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative

Signature of EPA Representative

## CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435 646 3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

350 FNL 456 FWL

NWNW Section 24 T8S R17E

5. Lease Serial No.

USA UTU-45431

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GMBU

8. Well Name and No.

HUMPBAC 4-24-8-17

9. API Well No.

4304736501

10. Field and Pool, or Exploratory Area

GREATER MB UNIT

11. County or Parish, State

UINTAH, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Change Status	
	<input checked="" type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The subject well has been converted from a producing oil well to an injection well on 08/05/2010.

On 08/04/2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 08/10/2010 the casing was pressured up to 1400 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20852-08589

API# 43-047-36501

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Lucy Chavez-Naupoto

Signature

Title

Administrative Assistant

Date

08/12/2010

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**AUG 16 2010**

**DIV. OF OIL, GAS & MINING**



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-45431
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: GMBU
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: GMBU
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 350 FNL 456 FWL		8. WELL NAME and NUMBER: HUMPBAC 4-24-8-17
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWNW, 24, T8S, R17E		9. API NUMBER: 4304736501
		10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
		COUNTY: UINTAH
		STATE: UT

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

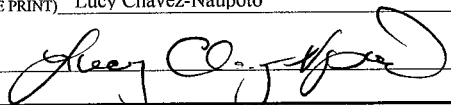
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 08/10/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: -
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 08/05/2010.

On 08/04/2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 08/10/2010 the casing was pressured up to 1400 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20852-08589 API# 43-047-36501

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant  
SIGNATURE  DATE 08/12/2010

(This space for State use only)

RECEIVED

AUG 16 2010

DIV OF OIL, GAS & MINING

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 08 / 10 / 2010  
Test conducted by: Lynn Monson  
Others present: \_\_\_\_\_

Well Name: <u>Humpback 4-24-8-17</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>Monument Butte</u>		
Location: <u>NW/NW</u> Sec: <u>24</u> T <u>8</u> N <u>10</u> R <u>17</u> E/W County: <u>Utah</u> State: <u>Ut.</u>		
Operator: <u>NewField</u>		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure: _____ PSIG	

Is this a regularly scheduled test? ☐ Yes ☒ No  
Initial test for permit? ☒ Yes ☐ No  
Test after well rework? ☐ Yes ☒ No  
Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 0 psig

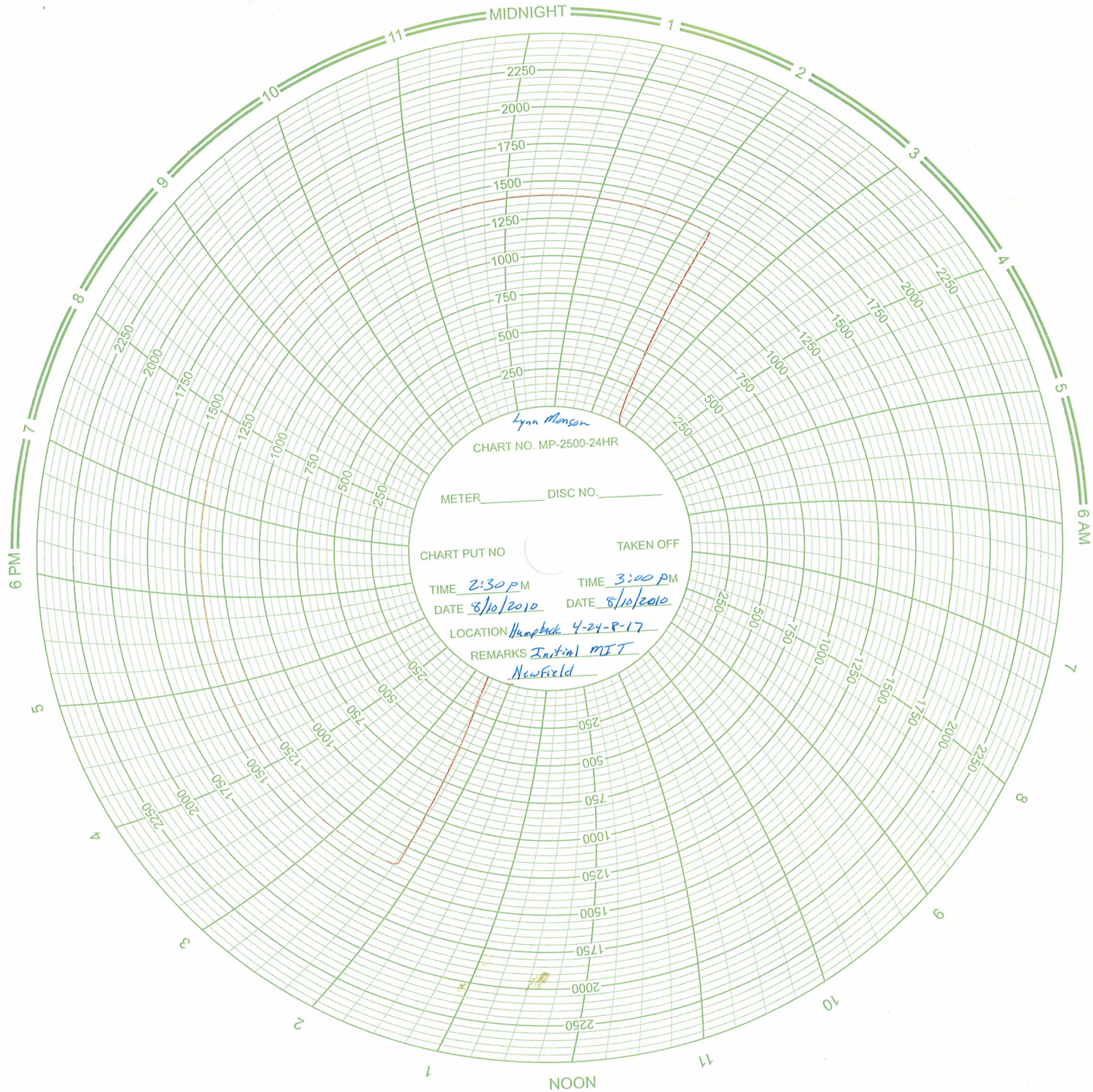
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING</b>	<b>PRESSURE</b>		
Initial Pressure	<u>0</u> psig	psig	psig
End of test pressure	<u>0</u> psig	psig	psig
<b>CASING / TUBING</b>	<b>ANNULUS PRESSURE</b>		
0 minutes	<u>1400</u> psig	psig	psig
5 minutes	<u>1400</u> psig	psig	psig
10 minutes	<u>1400</u> psig	psig	psig
15 minutes	<u>1400</u> psig	psig	psig
20 minutes	<u>1400</u> psig	psig	psig
25 minutes	<u>1400</u> psig	psig	psig
30 minutes	<u>1400</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.: \_\_\_\_\_

Signature of Witness: \_\_\_\_\_



**Daily Activity Report**

Format For Sundry

**HUMPBAC 4-24-8-17****6/1/2010 To 10/30/2010****8/4/2010 Day: 1****Conversion**

Nabors #809 on 8/4/2010 - LD rod strng & pump. NU BOP. - MIRU Nabors rig #809. RU HO trk to annulus & pump 60 BW @ 250°F. RU pumping unit & unseat rod pump. Flush tbg & rods W/ 40 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 8 BW. Pressure test tbg to 3000 psi. Retrieve rod string & unseat pump. TOH & LD rod string and pump. Re-flushed rods twice more on TOH W/ add'l 40 BW. ND wellhead & release TA @ 6198'. NU BOP. SIFN. - MIRU Nabors rig #809. RU HO trk to annulus & pump 60 BW @ 250°F. RU pumping unit & unseat rod pump. Flush tbg & rods W/ 40 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 8 BW. Pressure test tbg to 3000 psi. Retrieve rod string & unseat pump. TOH & LD rod string and pump. Re-flushed rods twice more on TOH W/ add'l 40 BW. ND wellhead & release TA @ 6198'. NU BOP. SIFN. **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** (\$28,827)**8/5/2010 Day: 2****Conversion**

Nabors #809 on 8/5/2010 - TOH W/ production tbg. TIH W/ packer & test injection string. - RU HO trk & Flush tbg W/ 40 BW @ 250°F. TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 52 jts & BHA. MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ wicker slips & W.L. re-entry guide), new 2 7/8 SN and 153 jts 2 7/8 8rd 6.5# J-55 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure test tbg to 3000 psi. Bled air & re-bumped pressure several times. Don't have a solid test. Re-pressure tbg to 3000 psi & SIFN. - RU HO trk & Flush tbg W/ 40 BW @ 250°F. TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 52 jts & BHA. MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ wicker slips & W.L. re-entry guide), new 2 7/8 SN and 153 jts 2 7/8 8rd 6.5# J-55 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure test tbg to 3000 psi. Bled air & re-bumped pressure several times. Don't have a solid test. Re-pressure tbg to 3000 psi & SIFN. **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** (\$21,873)**8/6/2010 Day: 3****Conversion**

Nabors #809 on 8/6/2010 - Confirm tbg test. Set & test packer. RDMOSU. - Perform MIT. Run Vaughn Energy Services gyro survey. - SITP @ 1900 psi. RU HO trk & bump tbg pressure to 3000 psi. Final test held solid for 30 minutes. Retrieve standing valve W/ overshot on sandline. ND BOP & land tbg on flange. Mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 70 bbls fresh water. Pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4701', CE @ 4705' & EOT @ 4709'. Land tbg W/ 15,000# tension. NU wellhead. Pressure test annulus & pkr to 1500 psi. Holds solid for 1 hour. RDMOSU. - Perform MIT. Run Vaughn Energy Services gyro survey. - SITP @ 1900 psi. RU HO trk & bump tbg pressure to 3000 psi. Final test held solid for 30 minutes. Retrieve standing valve W/ overshot on sandline. ND BOP & land tbg on flange. Mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 70 bbls fresh water. Pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4701', CE @ 4705' & EOT @ 4709'. Land tbg W/ 15,000# tension. NU wellhead. Pressure test annulus & pkr to 1500 psi. Holds solid for 1

hour. RDMOSU. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** (\$17,613)

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**8/11/2010 Day: 4**

**Conversion**

Rigless on 8/11/2010 - MITon Well - On 8/4/2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well (Humpback 4-24-8-17). On 8/10/2010 the csg was pressured up to 1400 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT 20852-08589 API#43-047-36501 - On 8/4/2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well (Humpback 4-24-8-17). On 8/10/2010 the csg was pressured up to 1400 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT 20852-08589 API#43-047-36501 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$7,707

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**Pertinent Files: Go to File List**





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

SEP 08 2010

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Michael Guinn  
District Manager  
Newfield Production Company  
Route 3 - Box 3630  
Myton, UT 84052

RE: Underground Injection Control (UIC)  
Authorization to Commence Injection  
EPA UIC Permit UT20852-08589  
Well: Humpback 4-24-8-17  
NWNW Sec. 24-T8S-R17E  
Uintah County, UT  
API No.: 43-047-36501

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

Dear Mr. Guinn:

The Environmental Protection Agency Region 8 (EPA) has received Newfield Production Company's (Newfield) August 12, 2010, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram, and calculated pore pressure were reviewed and approved by EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT20852-08589.

As of the date of this letter, Newfield is authorized to commence injection into the Humpback 4-24-8-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,145 psig. You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a step rate test that measures the fracture parting pressure and calculates the fracture gradient at this depth and location. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

As of this approval, responsibility for permit compliance and enforcement is transferred to EPA's UIC Technical Enforcement Program. Therefore, please direct all monitoring and compliance correspondence to Nathan Wiser at the following address, referencing the well name and UIC Permit number on all correspondence:

**RECEIVED**  
**SEP 15 2010**  
**DIV. OF OIL, GAS & MINING**

Mr. Nathan Wiser  
U.S. EPA Region 8: 8ENF-UFO  
1595 Wynkoop Street  
Denver, CO 80202-1129

Or, you may reach Mr. Wiser by telephone at 303-312-6211, or 1 800-227-8927, ext. 312-6211.

Please remember that it is your responsibility to be aware of and to comply with all conditions of injection well Permit UT20852-08589.

If you have questions regarding the above action, please call Bob Near at 303-312-6278 or 1-800-227-8917, ext. 312-6278.

Sincerely,



Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

Curtis Cesspooch, Chairman  
Frances Poowegup, Vice-chairwoman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman  
Irene Cuch, Councilwoman  
Richard Jenks, Jr., Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company





**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-45431
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: GMBU
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 350 FNL 456 FWL		8. WELL NAME and NUMBER: HUMPBAC 4-24-8-17
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWNW, 24, T8S, R17E		9. API NUMBER: 4304736501
		10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
		COUNTY: UINTAH
		STATE: UT

**CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will 09/16/2010	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Put on Injection
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above reference well was put on injection at 2:30 PM on 09-16-2010.

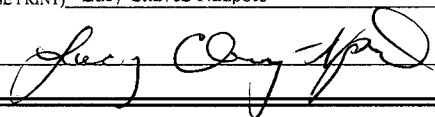
EPA # UT20852-08589 API # 43-047-36501

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE



DATE 09/16/2010

(This space for State use only)

**RECEIVED**  
**SEP 22 2010**  
**DIV. OF OIL, GAS & MINING**

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-45431
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> HUMPBAC FED 4-24-8-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0350 FNL 0456 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 24 Township: 08.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43047365010000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/8/2015	<input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	OTHER: 5 YR MIT	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. 5 YR MIT performed on the above listed well. On 07/08/2015 the casing was pressured up to 1244 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 971 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-08589		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> July 20, 2015		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/14/2015	

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 7 / 8 / 2015Test conducted by: Rocky CURRY

Others present: \_\_\_\_\_

Well Name: <u>HUMBACK FEDERAL 4-24-8-17</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>GREATER MONUMENT BUTTE</u>		
Location: <u>LOT 4</u>	Sec: <u>24</u>	T: <u>8</u> N/S: <u>R 17</u> E/W: <u>County: JINTAH</u> State: <u>UT</u>
Operator: <u>NEWFIELD EXPLORATION</u>		
Last MIT: <u>/ /</u>	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No  
 Initial test for permit? ☐ Yes ☒ No  
 Test after well rework? ☐ Yes ☒ No  
 Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 0/971 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING</b>	<b>PRESSURE</b>		
Initial Pressure	971 psig	psig	psig
End of test pressure	971 psig	psig	psig
<b>CASING / TUBING</b>	<b>ANNULUS PRESSURE</b>		
0 minutes	1244 psig	psig	psig
5 minutes	1244 psig	psig	psig
10 minutes	1244 psig	psig	psig
15 minutes	1244 psig	psig	psig
20 minutes	1244 psig	psig	psig
25 minutes	1244 psig	psig	psig
30 minutes	1244 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

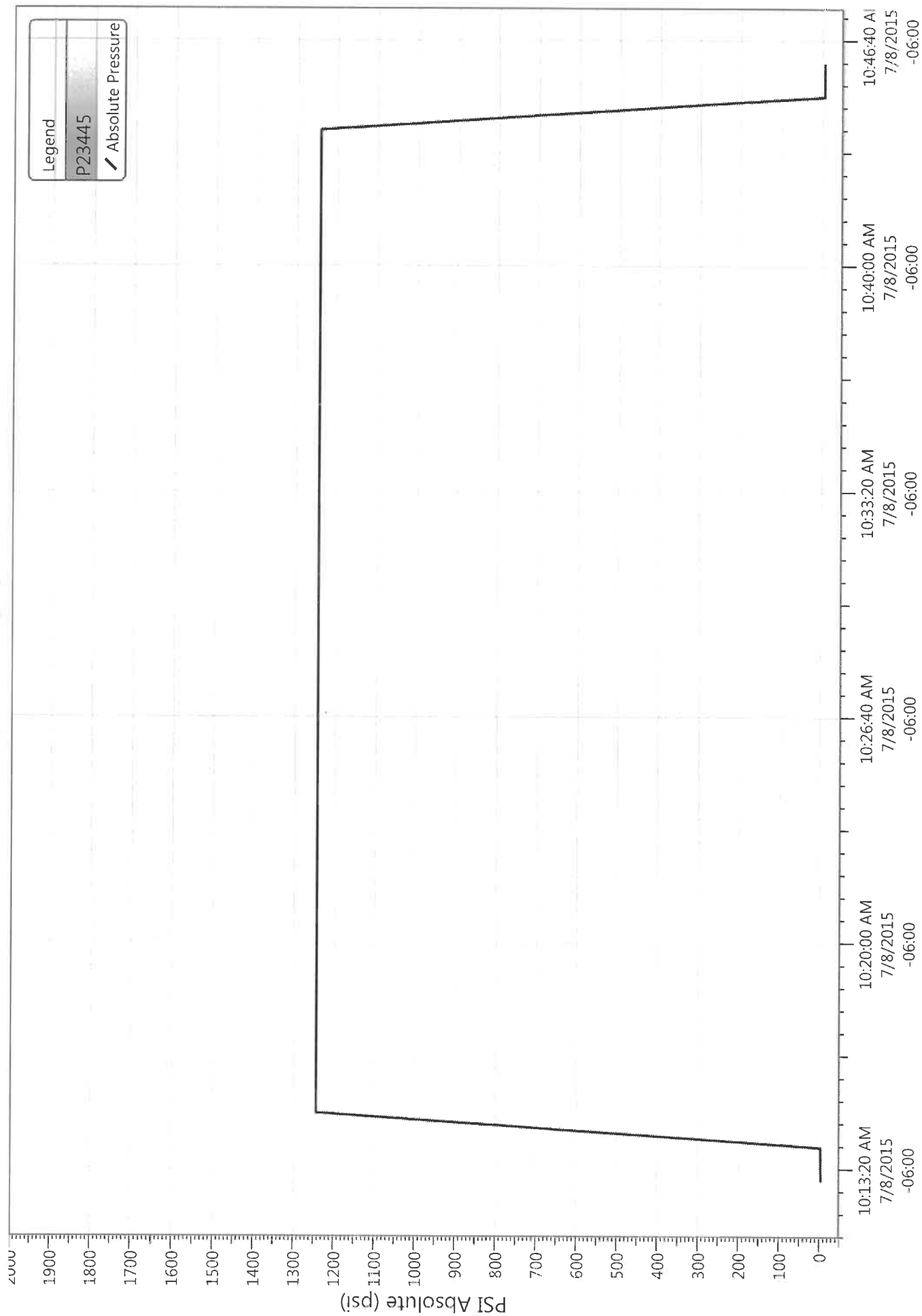
## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_

# Humpback 4 24 8 17 (5 Year MIT) 7/8/15

7/8/2015 10:12:22 AM



# Humpback Federal 4-24-8-17

Spud Date: 12/2/05  
Put on Production: 1/10/06  
GL: 5006' KB 5016'

## Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24.1  
LENGTH: 7 jts (327' 34")  
DEPTH LANDED: 337' 34" KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class G mixed cement 5 bbls cement to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 152 jts (6446' 59")  
DEPTH LANDED: 6144' 59" KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sxs Prem. Late II mixed & 500 sxs 50/50 POZ mix  
CEMENT TOP AT: 53'

### TUBING

SIZE/GRADE WL: 2-7/8" J-55 6.5  
NO. OF JOINTS: 153 jts (4690' 7")  
SEATING NIPPLE: 2-7/8" (1.10")  
SN LANDED AT: 4700' KB  
CL: a 4705.04'  
TOTAL STRING LENGTH: FOI a 4709' w/ 10' KB

### FRAC JOB

01/03/06 6169'-6228' **Frac CP2&3 sands as follows:**  
39,225# 20/40 sand in 482 bbls lightning  
Frac 17 fluid. Treated @ avg press of 1816 psi  
w/avg rate of 24.8 BPM. ISIP 1800 psi. Calc  
flush: 6167 gal. Actual flush: 5661 gal.

01/03/06 6067'-6076' **Frac CP.5 sands as follows:**  
30,095# 20/40 sand in 381 bbls lightning  
Frac 17 fluid. Treated @ avg press of 1690 psi  
w/avg rate of 24.9 BPM. ISIP 1930 psi. Calc  
flush: 6065 gal. Actual flush: 5451 gal.

01/03/06 5422'-5480' **Frac C sands as follows:**  
129,679# 20/40 sand in 922 bbls lightning  
Frac 17 fluid. Treated @ avg press of 1026 psi  
w/avg rate of 25.1 BPM. ISIP 1360 psi. Calc  
flush: 5420 gal. Actual flush: 4922 gal.

01/04/06 5241'-5247' **Frac D1 sands as follows:**  
20,243# 20/40 sand in 308 bbls lightning  
Frac 17 fluid. Treated @ avg press of 1467 psi  
w/avg rate of 24.7 BPM. ISIP 1725 psi. Calc  
flush: 5239 gal. Actual flush: 4662 gal.

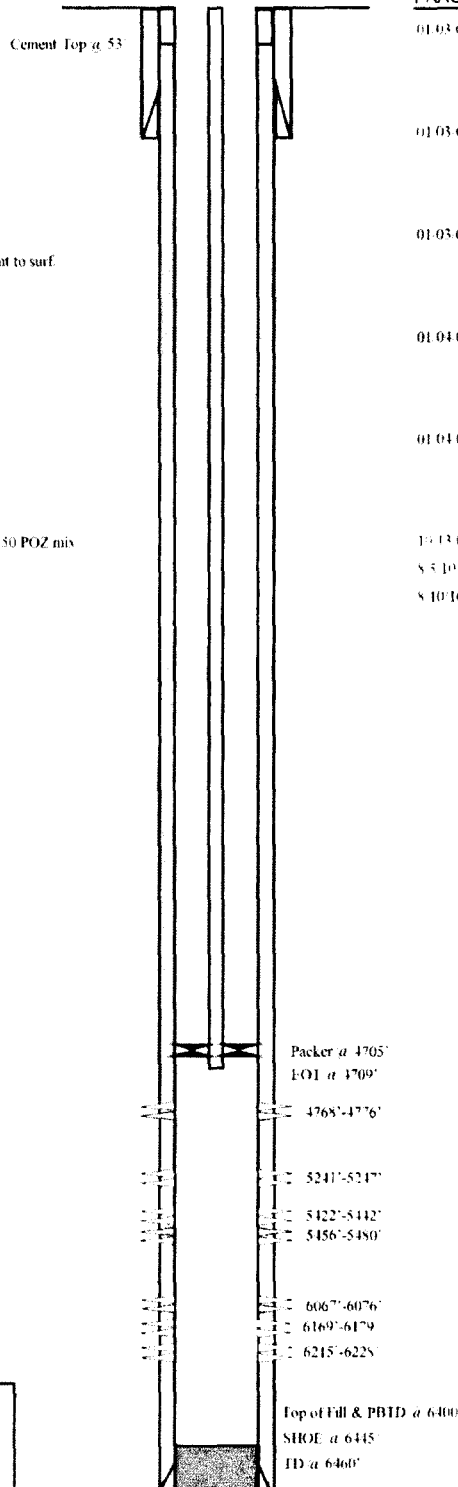
01/04/06 4768'-4776' **Frac GB6 sands as follows:**  
23,267# 20/40 sand in 317 bbls lightning  
Frac 17 fluid. Treated @ avg press of 2039 psi  
w/avg rate of 24.6 BPM. ISIP 2460 psi. Calc  
flush: 4766 gal. Actual flush: 4662 gal.

12/13/09  
8/5/10  
8/10/10

**Pump Change.** Updated rod & tubing details.  
**Convert to Injection well.**  
**MIT Completed** - tbg detail updated

### PERFORATION RECORD

01/04/06	4768'-4776'	4 JSPE	32 holes
01/03/06	5241'-5247'	4 JSPE	24 holes
01/03/06	5422'-5442'	4 JSPE	80 holes
01/03/06	5456'-5480'	4 JSPE	96 holes
01/03/06	6067'-6076'	4 JSPE	36 holes
12/29/05	6169'-6179'	4 JSPE	40 holes
12/29/05	6215'-6228'	4 JSPE	52 holes



**NEWFIELD**

**Humpback Federal 4-24-8-17**

350' ENL & 456' IWL

NW/4 Section 24-T8S-R17E

Uintah County, Utah

API #43-047-36501; Lease #U-45431